10-0.53 663

#### **Protein Sequence Searches - February 2005**

All of the sequence databases on ABSS have recould be or and red

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension .rup) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

http://www.pir.uniprot.org/database/archive.shtml

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

March 23, 2005, 14:38:05; Search time 23.5 Seconds (without alignments) 20.472 Million cell updates/sec

SEQ1 27 1 ffglm 5

Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 seqs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

206

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES ouerv Result

Description	Ig heavy chain CRD	alkanal monooxygen	neuropeptide Antho	Met-enkephalin - b	Ig heavy chain CRD	T-cell receptor be	27.5 kda structura	27.5K structural p	27.5K structural p	al	ural pr	blood cell protein	cholecystokinin-5	photosystem I 10.4	ren-enkephalin - p	T-cell receptor be		spinal cord peptid	О	T-cell receptor be	hypothetical prote	gut pentapeptide -	surface protein te	н	T-cell receptor be	growth-modulating	bursin - chicken	spinal cord peptid	antho-RFamide neur
ID	PT0278	A44955	JQ1273	A61445	PT0240	A53284	G44817	I44817	E44817	C44817	A44817	868328	A32516	PQ0689	B61445	PT0633	PT0572	B23751	E44823	B53284	T10954	JH0253	869237	PT0636	PT0571	GKHU	A60898	A23751	ECXAA
DB	7	~	~	~	7	7	~	~	~	7	N	m	~	~	~	7	~	m	~	7	~	N	N	ო	m	ო	ო	ო	Н
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Match	66.7	51.9	44.4	40.7	37.0	37.0	37.0	37.0	37.0		37.0	ë.		33.3	33.3	29.6	29.6	25.9	25.9	25.9	25.9	25.9		22.2	22.2	•	22.2	•	22.2
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hypothetical prote starvation-induced hypothetical prote	COI intron 16 prot autho-RF amide neu RPCH-related neuro	myosın-light-chain Ig mu chain V regi ubiquitin - reg globulin IV alpha	carbon-monoxide de neuropeptide Antho FMRFamide - polych	achatin-I - giant Ig heavy chain CRD T-cell receptor be
D41654 S53508 T30569	138888 A25844 A34626	S39390 S43959 S47552 S09478	PL0140 A35779 A60418	A32480 PT0271 PT0711
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### ALIGNMENTS

	RESULT 1 PT0278
	Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
	C;Species: Homo sapiens (man) C:Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text change 16-Aug-1996
_	C; Accession: PT0278
	R;Yamada, M.; Wasserman, R.; Relchard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991
	A, Title: Preferential utilization of specific immunoglobulin heavy chain diversity and jc
	A, Reference number: PT0222; MUID:91108337; PMID:1899102
_	A,Accession: PTU278
_	A; Molecule type: DNA
	A;Residues: 1-5 <yam></yam>
_	A; Experimental source: B lymphocyte
	C;Keywords: heterotetramer; immunoglobulin
_	Query Match 66.7%; Score 18; DB 2; Length 5;
	Best Local Similarity 40.0%; Pred. No. 2.88+05; Matches 2; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
	S ALCONO.
_	Db 1 YFGVL 5

alkanal monooxygenase (FWN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment) C;Species: Vibrio harveyi
C;Species: Vibrio harveyi
C;Date: 03-0un-1993 #sequence\_revision 03-0un-1993 #text\_change 26-May-2000
C;Accession: A44955
R;Paquatte, O.; Tu, S.C.
Photochem. Photobiol. 50, 817-825, 1989
A;Title: Chemical modification and characterization of the alpha cysteine 106 at the Vibn A;Reference number: A44955; MUID:90175700; PMID:2626493
A;Reference number: A44955
A;Retus: preliminary
A;Molecule type: protein
A;Residuse: 1-5 < PRQ>
C;Keywords: FMN; luminescence; monooxygenase; oxidoreductase ö Gaps ö Query Match
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels

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2 FGL 4

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RESULT 3 JQ1273

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Cybate: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
CyAccession: A53284
Rytarindranath, N.; Alexander, C.B.; Mage, R.G.
Myl Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences of germline diversity and 3c.
A;Reference number: A53284; MUID:91342695; PMID:1678859
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644817
27.5 kda structural protein - Leuconostoc oenos phage P32 (fragment)
27.5 kda structural protein - Leuconostoc oenos phage P32
5.5pecies: Leuconostoc oenos phage P32
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C;Accession: 644817
J. Gen. Microbiol. 137, 2155-2139, 1991
A;Title: Lysogeny in Leuconostoc oenos
A;Accession: G44817; MUID:92085033; PMID:1748868
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Cibate: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
Cibate: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
Cibate: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
Cibate: 137, 2135-2139, 1991
A; Title: Lysogeny in Leuconostoc oenos.
A; Reference number: A44817; MUID:92085033; PMID:1748868
A; Reference number: A44817
A; Molcoule type: protein
A; Residues: 1-5 cARE>
A; Note: sequence extracted from NCBI backbone (NCBIP:70330)
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                                                                                                                                                                                                                                                                                                                                              A;Accession: A53284
A;Status: preliminary
A;Mocele type: DNA
A;Mocele type: DNA
A;Mocele type: DNA
A;Coss-references: GB:S60737; NID:g233916; PIDN:AAB19517.1; PID:g233917
A;Note: Sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60739)
C;Keywords: T-cell receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  37.0%; Score 10; DB 2; Length 4; 100.0%; Pred. No. 2.8e+05; tive 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 2.88+05;
Matches 2; Conservative 0; Mismatches 0; Indels
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A;Residues: 1-5 <ARE>
A;Note: sequence extracted from NCBI backbone (NCBIP:70333)
                                                                                                                                                          T-cell receptor beta 2 chain D region, Dbeta2 - rabbit C;Species: Oryctolagus cuniculus (domestic rabbit)
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Matches 2; Conservative
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                                    C; Date: 31-Mar-1992 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
C; Accession: JQ1273 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
C; Accession: JQ1273 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
R; Nothacker, H-P.; Rinehart, K.L.; Grimmelikhuijzen, C.J.P.
Biochem: Biophys. Res. Commun. 179, 1205-1211, 1991
A; Reference number: JQ1273; MUD:92028852; PMID:1681803
A; Molecule type: protein
A; Residues: 1-4 < NOT>
                                                                                                                                                                                                                                                 A/Cross-references: UNIPROT:PS870S
C)Comment: The carboxyl-terminal amide probably arises from cleavage of a following glyc C)Keywords: amidated carboxyl end; neuropeptide; phenyllactylation
F;1/Modified site: L-3-phenyllactic acid (Phe) #status experimental
F;4/Modified site: amidated carboxyl end (Ala) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PT0240

Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
C.Species: Home sapiens (man)
C.Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C.Accession: PT0240
B.Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A.Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A.Recession: PT0222; MuID:91108337; PMID:1899102
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                  Species: Anthopleura elegantissima
Date: 31-Mar-1992 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Met-enkephalin - blue mussel
C;Species: Mytilus edulis (blue mussel)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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neuropeptide Antho-KAamide - sea anemone (Anthopleura elegantissima)
C;Species: Anthopleura elegantissima
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Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40.7%; Score 11; DB 2; Length 5; 66.7%; Pred. No. 2.8e+05; ive 0; Mismatches 1; Indels
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A;Residues: 1-4 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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Best Local Similarity 66.7
Matches 2; Conservative
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A;Residues: 1-5 <0BO>
C;Keywords: chloroplast; photosynthesis; photosystem I; thylakoid
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33.3%; Score 9; DB 2; Length 5;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 1; Indeli
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50.0%; Pred. No. 2.8e+05;
iive 1; Mismatches 0
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Matches 1; Conservative
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                                                                                                                 RESULT 9
E44817
27.5K structural protein - Leuconostoc oenos phage P54 (fragment)
27.5Ks structural protein - Leuconostoc oenos phage P54 (fragment)
C;Species: Leuconostoc oenos phage P54
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C;Accession: E44817
R;Archaft, E.K.; Lonnaud, A.; Hammes, W.P.
A;Title: Lysogeny in Leuconostoc oenos
A;Title: Lysogeny in Leuconostoc oenos
A;Reference number: A44817; MUID:92085033; PMID:1748868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28.5K structural protein - Leuconostoc oenos phage PAt5-12 (fragment)
C;Species: Leuconostoc oenos phage PAt5-12
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C;Accession: C44817
R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
J; Gen. Microbiol. 137, 2135-2139, 1991
A;Title: Lysogeny in Leuconostoc oenos.
A;Reference number: A44817; WUID:92085033; PMID:1748868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28K structural protein - Leuconostoc oenos phage PZt11-15 (fragment)
C;Species: Leuconostoc oenos phage PZt11-15
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
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; 0

37.0%; Score 10; DB 2; Length 5; 100.0%; Pred. No. 2.8e+05; tive 0; Mismatches 0; Indels

Query Match 37.0 Best Local Similarity 100. Matches 2, Conservative

€ 19=19

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RESULT 10

A;Accession: E44817 \*Molecule type: protein A;Residues: 1-5 <ARE> A;Note: sequence extracted from NCBI backbone (NCBIP:70336)

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Alternate names: CCK-5
Globecystokinin-5 - dog
NyAlternate names: CCK-5
Globecies: Canis lupus familiaris (dog)
Globecies: Canis lupus familiaris (dog)
Clobecies: Canis lupus familiaris (dog)
Clobecies: Canis lupus familiaris (dog)
Clobecies: 18-Oct-1989
Fercession: A32516
Fightlely, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, J.H.
A., Physiol. 252, G272-G275, 1987
A., Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and intest
A., Reference number: A32516; MUD:87153871; PMID:3826354
A., Molecule type: protein
A., Molecule ty
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C;Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 17-Mar-1999
C;Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 17-Mar-1999
C;Accession. PQ0689
R;Obokata, J.; Mikami, K.; Hayashida, N.; Nakamura, M.; Sugiura, M.
Plant Physiol. 102, 1259-1267, 1993
A;Title: Molecular heterogeneity of photosystem I. psaD, psaE, psaF, psaH and psaL are all A;Reference number: PQ0667; MUID:94105345; PMID:8278548
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Query Match 37.0%; Score 10; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 0; Indels Matches 0; Indels

3 GL 4

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<u>.</u>5

A;Molecule type: protein A;Residues: 1-5 <ARE> A;Note: sequence extracted from NCBI backbone (NCBIP:70341)

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Gaps

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37.0%; Score 10; DB 2; Length 5; 100.0%; Pred. No. 2.8e+05; rative 0; Mismatches 0; Indels

Query Match
Best Local Similarity 100.
Matches 2; Conservative

3 GF

Cispecies: Leuconostoc cenos phage PZC11-15
Cipecies: Leuconostoc cenos phage PZC11-15
Cipecies: Leuconostoc cenos phage PZC11-15
Cipecies: Laural99 #sequence\_revision 22-May-1998 #text\_che Cipecession: A44817
J. Gen. Microbiol. 137, 2135-2139, 1991
A; Ritle: Lysogeny in Leuconostoc cenos.
A; Reference number: A44817; MUID:92085033; PMID:1748868
A; Accession: A44817
A; Residues: 1-5 ARRS
A; Residues: 1-5 ARRS
A; Note: sequence extracted from NCBI backbone (NCBIP:70343)

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Wed Mar 23 15:33:42 2005
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Oy 2 FG 3

Db 2 YG 3

RESULT 15

RESULT 15

B61445

Leu-enkephalin - blue mussel
C:Species: Mytilus edulis (blue mussel)
C:Date: 07-oct-1994 #sequence_revision 07-oct-1994 #text_change 21-Jan-2000
R:Leung, M.K.; Stefano, G.B.
A;Titlen Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis A;Residues: 1-5 clbus
A;Residues: 1-5 clbus
A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid peptide
```

Search completed: March 23, 2005, 14:51:53 Job time : 25.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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- protein search, using sw model OM protein March 23, 2005, 14:21:29 ; Search time 112.5 Seconds (without alignments) 22.759 Million cell updates/sec Run on:

SE01

27 1 ffglm 5 Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

1612378 segs, 512079187 residues Searched:

23 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

UniProt\_03:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Description	P81817 carcinus ma	P58705 anthopleura	8	4	0		P82072 litoria rub	P82073 litoria rub	æ	P54714 canis famil	anthop	8	6	P83570 sepia offic		P35904 achatina fu	P19916 pseudomonas	P02731 homo sapien	2 hirudo	hirudo	-	7	N	P58649 octopus min	7	2 eisenia	_	0	3 artiopo	3308	P19991 acheta dome
QI 1	AL14 CARMA	FFKA ANTEL	OCP1_OCTMI	PAP2_PARMA	RE11_LITRU	RE21_LITRU	RE31_LITRU	RE32_LITRU	. UC22_MAIZE	TPIS CANFA	FYRI ANTEL	ILME_SEPOF	UF01 MOUSE	GWA SEPOF	GRWM HUMAN	ACH1_ACHFU	DCML_PSECH	EOSI HUMAN	FAR3_HIRME	. FAR4_HIRME	FLRF_HIRME	FLRN_ANTEL	FMRF	OCP3		•	EI03 LITRU	. EI04_LITRU	FARP ARTTR	. FARP_CHICK	SUGA_ACHDO
Length DB	5 1	4	4	5 1	5 1	5	5 1	5	5 1	5 1	4 1	4	5 1	2	3	4	4	4	4	4	4.	4		•	4		5	5	5 1	5	5
% Query Match	59.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	40.7	33.3	33.3	25.9	22.2	22.2	22.2	ς.		22.2	22.2	'n	ς.	2	ä	22.2	•	٠	ς.	22.2	ς.	22.2
Score	16	12	12	12	12	12	12	12	12	11	6	0	7	9	9	9	9	9	9	9	9	9	ø	9	9	9	9	9	9	9	9
Result No.	-	7	m	4	ß	φ	7	80	σı	10	11	12	13	14	15	16	17	18	19						25	26	27		59	30	31

FGL 5 2 FGL 4

ò 셤 MEDLINE=92028852; PubMed=1681803; Nothacker H.-P., Rinehart K.L. Jr., Grimmelikhuijzen C.J.P.; "Isolation of L-3-phenyllactyl-Phe-Lys-Ala-NH2 (Antho-KAamide), a

SEQUENCE

28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Antho-Khamide.
Antho-Ramide.
Bukho-gramide:
Sea annemone).
Bukaryota; Metazoa; Cinidaria; Anthozoa; Zoantharia; Actiniaria; Nynantheae; Actiniidae; Anthopleura.

4 AA.

PRT;

STANDARD;

RESULT 2 FFKA\_ANTEL ID FFKA\_ANTEL AC P58705;

						; 0
chlamydia t pseudomonas homo sapien citrobacter citrobacter hordeum vul bacillus ce rattus sp. carcinus ma limulus pol periplaneta periplaneta limulus pol periplaneta carcinus carc carcinus carc carcinus pol periplaneta limulus pol periplaneta carcinus carc carcinus carc carcinus pol periplaneta limulus pol periplaneta				·, the	as."; lator. Neuropeptide.	0; Gaps
P38005 P19918 P19918 P12971 P129907 Q99007 Q99007 Q98433 P67858 P67858 P67858 P67858			crab). Malacostraca; mata; Brachyura; .nus.	р. Р.	maen omodu ily; al).	Length 5; 16; 0; Indels
CHLTR TO THE TO	AL I GNMENTS	PRT; 5 AA. ed) sequence update) annotation update)	ore crab) (Green crab). poda; Crustacea; Malacc Decapoda; Pleocyemata; Portunidae; Carcinus.	DECEMBER 1 ganglion, and Thoracic ganglion; MEDLINE-98121193; PubMed-9461295; Dlve H., Johnsen A.H., Maestro JL., Scott A.G., Jaros Phorpe A.; Hoppa A.;	0	DB 1; 1.6e+0 hes
1 UXA4 CHLTR 2 Q96ATO 2 Q96ATO 1 BIOA CITFR 2 Q99007 2 P83073 2 Q08433 2 Q08433 1 PRCT CARMA 1 PRCT LIMPO 1 PRCT ERRAM 1 PRCT ERRAM 2 PRCT PERAM 3 PRCT PERAM 4 PRCT PERAM 4 PRCT PERAM 5 PRCT PERAM 5 PRCT PERAM 6 PRCT PERAM 7 P	ALIG	1.3		TISSUE-Cerebral ganglion, and Thoraci MEDLINE-98121193; PubMed-9461295; Duve H., Johnsen A.H., Maestro JL., Thorpe A. Tisolation and identification of mult	allatostatin superfamily in the shore crab ( Eur. J. Blochem. 250,727-734(1997).  -i. FUNCTION: May act as a neurotransmitter  -i. SIMILARITY: Belongs to the allatostatin Amidation; Direct protein sequencing; Multis MOD_RES  5 Leucine amide  SEQÜENCE 5 AA; 586 MW; 672879D5AB300000	Scc Pr 0,
ለ 4 4 ለ ለ ለ ለ ላ ላ ለ ለ ለ ለ ለ ላ 4		randar . 39, . 39,	Carcinus maenas (Common st Bukaryota; Metazoa; Arthro Eumalacostraca; Eucarida; Bubrachyura; Portunoidea; NCBI TaxID=6759;	TISSUE=Cerebral ganglion, and Tho MEDLINE=98121193; PubMed=9461295; Dubuve H., Ohnsen A.H., Maestro J. Thorpe A.; Isolation and identification of	Eur. J. Biochem. 250:727-734(1997) Eur. J. Biochem. 250:727-734(1997) -!- FUNCTION: May act as a neurotr!- SIMILARITY: Belongs to the all Amidation; Direct protein sequenci MOD_RES. S. 5 Leuci SEQÜENCE 5 AA; S86 MW; 672879D	59.3%; larity 100.0%; Conservative
22 22 23 44 44 118 188 188 198 198 198 198 198 198 198		0 (Re 0 (Re 4 (Re tin 1	Carcinus maenas Eukaryota; Metaz Eumalacostraca; Eubrachyura; Por NCBI_TaxID=6759;	TESSUE-Cerebral TESSUE-Cerebral BUVE H., Johnsen Thorpe A.;	.⊣ 0 C) C2	Simi 3;
	LT 1	CARMA AL14 CARMA P81817; 30-MAY-2000 30-MAY-2000 05-JUL-2004 Carcinustat	Carcinus Eukaryota Eumalacos Eubrachyu NCBI TaxI	TISSUE=Cer MEDLINE=98 Duve H., J Thorpe A.;	allatostat Eur. J. Bi. -!- FUNCTI -!- SIMILA Amidation; MOD RES	Query Match Best Local Matches
	RESULT	A CALLE	8 0 0 0 0 X X	R R R R R R R R	SO TE SO	A B B C

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Wed Mar 23 15:33:42 2005

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SEQUENCE.
TISSUB-Skin secretion;
MEDLINE-87057369; PubMed=1782138;
Lazarovici P., Primor N., Loew L.M.;
"Purlication and pore-forming activity of two hydrophobic polyretides from the secretion of the Red sea moses sole (Pardachirus
                                          30-MAY-2000 (Rel. 39, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Pardaxin II (PXII) (Fragment).
Pardachirus marnoratus (Red sea moses sole).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Acathomorpha; Acathopterygii; Teleostei; Euteleostei; Neoteleostei;
Soleoidei; Soleidae; Pardachirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ### And The Company of the Control o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Skin secretion;
TISSUE=Skin secretion;
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
"The M.J., Wallace J.C.;
"The structure of new peptides from the Australin red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963(1996).
-!- FUNCTION: Shows neither neuropeptide activity nor antibiotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Amphibia, Batrachia, Anura, Neobatrachia, Hyloidea, Hylidae,
Pelodryadinae, Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            activity.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUB SPECIFCITY: Expressed by the skin dorsal glands.
-!- MASS SPECTROMETRY: MW=598, METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
Amphibian defense pepilde; Direct protein sequencing.
SEQUENCE 5 AA; 598 MW; 6DD9C9CAB2A00000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44.4%; Score 12; DB 1; Length 5; 100.0%; Pred. No. 1.6e+06; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match

44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 AA; 614 MW; 7769C9C9C8100000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-UUL-2004 (Rel. 44, Last annotation update)
Rubellidin 1.1.
Litoria rubella (Desert tree frog).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 100.
Matches 2; Conservative
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RE11 LITRU
ID RE11 LITRU
AC P82070;
DT 28-FEB-2003 (
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                                                                                         MEDLINE=93391436; PubMed=8397415;
MCFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;
Mrante sepansion behaviour of sea anemones may be coordinated by two standard proc. R. Soc. Lond., B. Biol. Sci. 253:183:1881(1933).
C. PUNCTION: Inhibits spontaneous contractions in several muscle groups. May be involved in the expansion phase of feeding c. Sci. 1 SubCELLUAR LOCATION: Secreted.
C. SubCELLUAR LOCATION: Secreted.
C. I SUBCELLUAR LOCATION: Secreted.
C. I STANGE SECFFICITY: Neuron specific.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD_RES 1 3-Phenyllactic acid.
SSQ SEQUENCE 4 AA; 512 MW; 6DD339C9A0000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
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-!- PTM: Ocp-2 has L-Phe instead of D-Phe.
-!- MASS SPECTROMETRY: WW=395.2; METHOD=MALDI; RANGE=1-4; NOTE=Ref.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
cardioactive peptides Ocp-1/Ocp-2.
Cutopus minor (Octopus).
Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea; Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            D-amino acid; Direct protein sequencing; Hormone.

MOD RES
2 D-phenylalanine (in form Ocp-1).

SEQUENCE 4 AA, 394 MW; 6AA879C810000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  44.4%; Score 12; DB 1; Length 4; 100.0%; Pred. No. 1.6e+06; tive 0; Mismatches 0; Indels
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ovel neuropeptide from sea anemones.";
iochem. Biophys. Res. Commun. 179:1205-1211(1991)
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PAP2 PARMA STANDARD;
AC P81864;
DT 30-MAY-2000 (Rel. 39, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 100.0%,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
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Gaps

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Touret P., Ricardi F., Morin C., Damerval C., Huet J.-C.,
Pernollet J.-C., Zivy M., de Vienne D.;
"The maize two dimensional gel protein database: towards an integrated
genome analysis program.";
Theor. Appl. Genet. 93:997-1005(1996).
-1- MISCELLANBOUS: On the 2D-gel the determined pI of this unknown
protein is: 6.1, its MW is: 30.4 kDa.
Maize-2DPAGE; P80628; COLEOPTILE.
MaizebB; 123954; -.
Direct protein sequencing.
Query Match
Best Local Similarity
....hes 2; Conserva
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P82073;
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P80628;
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Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
"The Bructure of new peptides from the Australin red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
Aust. J. Chem. 43:955-963(1996).
-I- FUNCTION: Shows neither neuropeptide activity nor antibiotic
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bumphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;

Pelodryadinae; Litoria.
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-!- TISSUB SPECIFICITY: Expressed by the skin dorsal glands.
-!- MASS SPECIFORETRY: MW=655, METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
Amidation; Amphibian defense peptide; Direct protein sequencing.
MOD RES 5 Threonine amide.
SEQÜENCE 5 AA; 656 MW; 71A9C9CB10300000 CRC64;
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-!- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
-!- MASS SPECIROMETRY: NW=626; METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
Amphibian defense peptide. Direct protein sequencing.
SEQUENCE 5 AA; 626 MW; 6DD9C9CB10300000 CRC64;
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Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Tyler M.J., Wallace J.C.;
Tyler M.J., Wallace J.C.;
"The structure of new peptides from the Australin red tree frog
"Intoria rubella'. The skin peptide profile as a probe for the st
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963 (1996).
-1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
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                                                                                                                                                                                                                                                                                                                28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Rubellidin 2.1.
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(Rel. 41, Last sequence update)
(Rel. 44, Last annotation update)
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Litoria rubella (Desert tree frog)
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P82072;
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RE31 LITRU

RE41 LITRU

RE51 LITRU

RE51 LITRU

RE71 LITRU

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Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae,
PACCAD clade, Panicoideae, Andropogoneae, Zea.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Litoria rubella (Desert tree frog).

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
Pelodryadinae; Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rubella.";
Aust. J. Chem. 52:639-645(1999).
-!- FUNCTION: Shows neither neuropeptide activity nor antibiotic
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01-OCT-1996 (Rel. 34, Last sequence update)
05-UUL-2004 (Rel. 34, Last annotation update)
Unknown protein from 2D-PAGE of etiolated coleoptile (Spot 474)
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--- SUBCELLULAR LOCATION: Secreted.
--- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
--- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
--- Amphibian defense peptide; Direct protein sequencing.
SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
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                                                     0; Indels
  Length
44.4%; Score 12; DB 1; Le
100.0%; Pred. No. 1.6e+06;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                     28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
20-UUL-2004 (Rel. 44, Last annotation update)
Rubellidin 3.2.
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                                                        Conservative
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1es 2; Conservative
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TISSUE=Skin secretion;
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P83568;
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PROSITE; PS00171; TIM; PARTIAL.
Direct protein sequencing; Fatty acid biosynthesis; Gluconeogenesis; Glycolysis; Isomerase; Pentose shunt.
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-1- SUBUNIT: Homodimer (By similarity).
-1- SIMILARITY: Belongs to the triosephosphate isomerase family.
HSC-2DPAGE; P54714; DGG.
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Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
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SEQUENCE.
MEDLINE=92270459; PubMed=1821096; DOI=10.1016/0196-9781(91)90190-Z;
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25-OCT-2004 (Rel. 45, Last annotation update)
Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Triose-phosphate
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28-FEB-2003 (Rel. 41, Last sequence update)
26-701-2004 (Rel. 44, Last annotation update)
Anthor-Klamide I (Contains: Anthor-Klamide II).
Evkaryota; Metazoa; Chidaria; Anthozoa; Zoantharia; Actiniaria;
Nymantheae; Actiniidae; Anthopleura.
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                                                                         44.4%; Score 12; DB 1; Length 5; 100.0%; Pred. No. 1.6e+06; tive 0; Mismatches 0; Indels
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5 AA; 654 MW; 72CB19C9C0300000 CRC64;
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Pred. No. 1.6e+06;
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                                                                                                              2; Conservative
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                                                                                           Local Similarity
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01-OCT-1996
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                                                                       Query Match
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Nothacker H.-P., Rinehart K.L. Jr., McFarlane I.D., Grimmelikhuijzen C.J.P.;
Grimmelikhuijzen C.J.P.;
"Isolation of two novel neuropeptides from sea anemones: the unusual, biologically active L-3-henyllactyl-Tyr-Arg-Ile-NH2 and its despeptides 12:1165-1173(1991).
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MEDLINE-20403899; PubMed=10944467; DOI=10.1006/bbrc.2000.3286;
Zatylny C., Gagnon J., Boucaud-Camou E., Henry J.;
"ILME: a waterborne pheromonal peptide released by the eggs of Sepia officinalis.";
Biochem. Biophys. Res. Commun. 275:217-222(2000).
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MEDLINE=22197108; PubMed=12207899; DOI=10.1016/S0006-291X(02)02036-3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota, Metazoa, Mollusca, Cephalopoda, Coleoidea, Neocoleoidea, Decapodiformes, Sepioidea, Sepiidae, Sepia.
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"Fertilization in Sepia officinalis: the first mollusk sperm-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
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1.6e+06;
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100.0%; Pred. No. 1.6e+06;
iive 0; Mismatches 0; Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Drotein sequencing; Pheromone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-MAR-2004 (Rel. 43, Created)
29-MAR-2004 (Rel. 43, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Pheromone peptide ILME.
Sepia officinalis (Common cuttlefish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 AA
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10 50.0%; Pred. No. 1.6e
Conservative 1; Mismatches
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Best Local Similarity 100.0
Matches 2; Conservative
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Gaps

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GRWM_HUMAN
Matches
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MEDLINE=95009907; PubMed=7523108;
MEDLINE=95009907; PubMed=7523108;
Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
"Separation and sequencing of familiar and novel murine proteins using preparative two-dimensiational gel electrophoresis.";
Electrophoresis 15:735-745(1994).
-!- MISCELLANEOUS: On the 2D-gel the determined pl of this unknown protein is: 6.6, its MW is: 19 kDa.
Direct protein sequencing.

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MEDLINE-99100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
MEDLINE-99100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
MEDLINE-99100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
MEDLINE-99100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
MEDLINE-PORTION: Repulation of a movel Ala-Pro-Gly-Trp-amide-related peptide inhibiting the motility of the mature oviduct in the cutrifish, Septide field in motility of the oviduct targeting the distral oviduct. Inhibits the motility of the oviduct by decreasing tonus, frequency and amplitude of contractions.

-: SUBCELLULAR LOCATION: Secreted.
-: MASS SPECTROMETRY: WW=259.9; METHOD-MALDI; RANGE=1-2; NOTE=Ref:1.
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Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
Decapodiformes; Sepioidea; Sepiidae; Sepia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus (Mouse).

Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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                                                                                                                                                                                                                                                                                                                                                                                    01-OCT-1994 (Rel. 30, Created)
01-OCT-1994 (Rel. 30, Last sequence update)
05-ULL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND AMIDATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amidation; Direct protein sequencing; Neuropeptide. MOD RES 2 Tryptophan amide. SEQUENCE 2 AA; 261 MW; 737810000000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE 5 AA; 717 MW; 7364087043100000 CRC64;
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                                                                                                                                                                                                                                                                                                                   5 AA.
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GWA_SEPOF
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22.2%; Score 6; DB 1; Length 2; 100.0%; Pred. No. 1.6e+06;

Best Local Similarity

Query Match

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                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=77162369; PubMed=858356;
MEDLINE=77162369; PubMed=858356;
Schlesinger D.H., Pickart L., Thaler M.M.;
"Growth-modulating serum tripeptide is glycyl-histidyl-lysine.";
Experientia 33:324-325(1977).
INSCELLANEOUS: This serum tripeptide has been found to stimulate growth of some cell types and to inhibit other types in vitro.
GO; GO:0001558; Pirregulation of cell growth; NAS.
Gaps
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                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
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Indels
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Pred. No. 1.6e+06;
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SEQUENCE 3 AA; 340 MW; 6331E8100000000 CRC64;
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Homo sapiens (Human)
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100.0%; Pred. No. 1...
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0; Mismatches
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Best Local Similarity 100...
1, Conservative
1; Conservative
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5.1.6	Compugen
version 5.1.6	- 2005
SenCore	(c) 1993
	Copyright (c

OM protein - protein search, using sw model

March 23, 2005, 15:19:16 ; Search time 68 Seconds (without alignments) 28.438 Million cell updates/sec Run on:

Title:

27 1 ffglm 5 Perfect score: Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: Searched:

45841

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A\_Geneseq\_16Dec04:\* 1: genesecm19Rnc.\* Database

geneseqp1980s:\*
geneseqp1990s:\*
geneseqp2000s:\*
geneseqp2001s:\* geneseqp2002s:\* geneseqp2003as:\* geneseqp2003bs:\* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp20048:\*

SUMMARIES

Result No.	ပ္မ		Query Match Length DB	DB	ΔΙ	Description
	27		S	7	AAR3	Aar33009 Alpha-sı
7	27	100.0	Ŋ	~	AAR33008	Aar33008 Alpha-s
e	27	100.0	ß	~	AAR33007	Aar33007 Alpha-s
4	27	100.0	S	~	AAR33010	Aar33010 Alpha-s
S	27	100.0	S	~	AAR54549	Aar54549 Cholecy

	Description	r33009		Aar33007 Alpha-sub	Aar33010 Alpha-sub	Aar54549 Cholecyst	Aar54551 Cholecyst	Aar54550 Cholecyst	Aar54548 Cholecyst	Aaw41687 Tetrapept		Aay50325 Neutrophi	Aaw92660 Human tac		Aay67576 P antagon	-	Abb10088 Substance	-	m	Adf92530 Substance	Adn95078 Mammalian	Adr43771 Human mag	Aaw92702 Human tac	Abb10089 Substance	Ade94204 High acti	Aar27697 Cyclic ta
	ID	AAR33009	AAR33008	AAR33007	AAR33010	AAR54549	AAR54551	AAR54550	AAR54548	AAW41687	AAW99643	AAY50325	AAW92660	AAB23025	AAY67576	AAB91428	ABB10088	AAU77845	ADE94203	ADF92530	ADN95078	ADR43771	AAW92702	ABB10089	ADE94204	AAR27697
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Human tac Human tac Peptide u Nen-cross Human/rat P antagon Tachykini High acti Human ac
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AAW92703 AAW92701 AAW92701 AAX91063 AAX67577 AAX67577 AAB10091 AAU77846 AAB1372 AAB10090 AAB13372 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090 AAB10090
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# ALIGNMENTS

AAR33009 standard; peptide; 5 AA. RESULT 1 AAR33009

AAR33009;

(revised)
(first entry) 25-MAR-2003 02-APR-1993

Alpha-substituted short peptide.

CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia; improved bioavailability. Location/Qualifiers Synthetic

/note= "alpha-Me-Leu" /note= "Met-NH2" Key Modified-site Modified-site WO9219254-A1 12-NOV-1992. 

92WO-US003119. 15-APR-1992;

91US-00690755. 92US-00852086. 24-APR-1991; 20-MAR-1992;

(WARN ) WARNER LAMBERT CO.

Horwell DC, Hughes J, Richardson RS,

Howson W;

WPI; 1992-398522/48.

New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.

Claim 3; Page 41; 46pp; English.

The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify the bioavailability, stability or absorbability of the peptide and hence may improve the activity of the peptide as a drug. Depending on the

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nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic peptide, etc.), the modified peptides are variously useful for treating obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, addictive drug withdrawal symptoms, hypertension, heart failure, asthma, bladder dysfunction, psychosis and arthritis, and as contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.) (Updated on field.) (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the Chain. Such substitution may modify the bioavailability, stability or absorbability of the peptide and hence mature of the parent peptide (hormone, endorphin, CCK, NR2, chemocactic peptide, etc.), the modified peptides are variously useful for treating obesity, anxiety, gastroinestinal ulcers, pain, stroke, inflammation, addictive drug withdrawal symptoms, hypertension, heart failure,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
improved bioavailability.
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0
                                                                                                                                                                               100.0%; Score 27; DB 2; Length 5; 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "alpha-Me-Phe"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                  AAR33008 standard; peptide; 5 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                     Alpha-substituted short peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Met-NH2'
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92US-00852086
                                                                                                                                                              Query Match
Best Local Similarity 100.
5; Conservative
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1992-398522/48.
                                                                                                                                                                                                                                   1 FFGLM
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                                                                                                                                              Sequence 5 AA;
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02-APR-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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cognition or memory disorders, spasticity, depression, diabetes, cancer, asthma, bladder dysfunction, psychosis and arthritis; and as contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify the bioavailability, stability or absorbability of the peptide and hence may improve the activity of the peptide as a drug. Depending on the peptide, etc.), the modified peptide are variously useful for treating obssity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, cognition or memory disorders, spasticity, depression, diabetes, cancer, asthma, bladder dysfunction, psychosis and arthritis; and as contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.
                                                                                                                                                                                                                                                                                                                                                                                         CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
                                                                                                                                                      Gaps
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                                                                                                               100.0%; Score 27; DB 2; Length 5; 100.0%; Pred. No. 1.88+06; Live 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Richardson RS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note= "alpha-Me-Phe"
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                              AAR33007 standard; peptide; 5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "Met-NH2"
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92US-00852086.
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(first entry)
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                                                                                                         Query Match
Best Local Similarity
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                                                                                                                                                                   1 FFGLM 5
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02-APR-1993
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20-MAR-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
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Matches
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AAR33007
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Matches

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The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues of cholecystokinin (CCK) which can be used to treat obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart failure, cognition, memory enhancement, spasticity, depression, diabetes, cancers, asthma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                                                        gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
heart failure; cognition; memory enhancement; spasticity; depression;
diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
                                                                                                                                                                                                                                                                                                                                      Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New cholecystokinin analogues – useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Amidated C-terminal"
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0; Mismatches
                                                                                                                                                                                                                                                                                                   Cholecystokinin analogue peptide #42.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR54551 standard; peptide; 5 AA.
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93US-00131693.
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(first entry)
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hes 5; Conservative
5; Conservative
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                                   1 FFGLM 5
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14-DEC-1994
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AAR54551
ID AAR5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.
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field.) (Updated on 25-MAR-2003 to correct PI field.)
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Pred. No. 1.8e+06;
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                                                                                                            5; Conservative
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AAR54548
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                                                                     Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety; gastrointestinal ulcers; pain; stroke; inflammation; hypertension; heart failure; cognition; memory enhancement; spasticity; depression; diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
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                                                                                                                                                                 /note= "Amidated C-terminal"
                                                    Cholecystokinin analogue peptide #44.
                                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 66; 73pp; English.
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                                                                                                                                                       'label= MeMet
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93US-00131693
                            (revised)
(first entry)
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Modified-site
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14-DEC-1994
                                                                                                                   Synthetic
          AAR54551;
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The sequences given in AARS3117-38 and AAR54530-51 are peptide analogues of cholocystokinin (CCK) which can be used to treat obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart failure, cognition, memory enhancement, spaticity, depression, diabetes, cancers, asthma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN
diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
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                                                                                                                                                                                                                                                  /note= "Amidated C-terminal"
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                                                                                                                            Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR54548 standard; peptide; 5 AA.
                                                                                                                                                                                         /label= MeLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                     93WO-US009809.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92US-00963169.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (WARN ) WARNER LAMBERT CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1994-151243/18
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Best Local Similarity
Matches 5; Consery
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Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                            07-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                             03-MAR-1999.
                                                                                                                                                                                                                                                                                                                                                            EP898967-A1
                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                          AAW99643;
                                                                                                                                  Query Match
Best Local 8
                                                                                                                                                 Matches
                                                                                                                                                                                                          RESULT 10
                                                                                                                                                                                                                   AAW99643
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                                                                                                                                                                                                                                                                  ö
                                                                                                                                                            The sequences given in AARS1117-18 and AARS4530-51 are peptide analogues of cholecystokinin (CCK) which can be used to treat obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart failure, cognition, memory enhancement, spasticity, depression, diabetes, cancers, asthma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                            drug; corneal disorder; ulcer; epithelial peeling; dry eye; insulin like growth factor-1; IGF-1; eye drop.
                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ophthalmic drug composition containing tetra:peptide - is useful as
                                                                                                                        New cholecystokinin analogues - useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
                                                                                                                                                                                                                                                                  ;
                                                                                                                                                                                                                                                   Length 5;
                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                 100.0%; Score 27; DB 2; I 100.0%; Pred. No. 1.8e+06; iive 0; Mismatches 0;
                                                                                         Hugues J, Richardson RS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "C-terminal amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                           AAW41687 standard; peptide; 5 AA.
                                                                                                                                                Claim 3; Page 66; 73pp; English
                                93WO-US009809,
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                                                92US-00963169
93US-00131693
                                                                        (WARN ) WARNER LAMBERT CO.
                                                                                                                                                                                                                                                                                                                                                                            09-JUN-1998 (first entry)
                                                                                                                                                                                                                                                Query Match 100.
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SANT ) SANTEN PHARM CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nishida T, Nakamura M,
                                                                                        Horwell DC, Howson W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-076907/07.
                                                                                                                                                                                                                                                                                  FFGLM 5
                                                                                                                                                                                                                                                                                                  FFGLM 5
                                                                                                                                                                                                                                                                                                                                                                                                            Ophthalmic drug;
keratitis; insul:
                                                                                                                                                                                                                                                                                                                                                                                            Tetrapeptide #4
                                                                                                                                                                                                                                  Sequence 5 AA;
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Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUN-1996;
                                14-OCT-1993;
                                                19-OCT-1992;
                                                        08-OCT-1993;
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                28-APR-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
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                                                                                                                                                                                                                                                                                                                                                            AAW41687;
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                                                                                                                                                                                                                                   ophthalmic drug composition which contains Phe-Gly-Leu-Met-NH2 or its medicinally acceptable salts as the active ingredient. It is used, together with insulin like growth factor-I (IGF-I), to treat corneal disorders such as corneal ulcer, corneal epithelial peeling, dry eye and secatitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The preferable form of the composition is eye drops
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A composition has been developed for supplying a peptide to an opioid receptor or that interferes with binding of substance P to its receptor. The composition comprises: (a) myogenic cells that contain heterologous DNA encoding the peptide to express the peptide; and (b) a pharmaceutically acceptable carrier. The composition is useful for relieving pain and for treating behavioural and perception as abnormalities using myobbast transfer therapy. It is useful in a method for treating psychiatric conditions that involve abnormal perception e.g. depression, chronic anxiety syndromes, paranola, alcoholism and drug addiction, chronic pain and other diseases in which opioid neurons and substance p sensitive neurons play a role. The composition provides a continuous,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Substance P, myoblast transfer therapy, pain relief, analgesic, behavioural abnormality, perceptive abnormality, opioid receptor; psychiatric condition, depression; chronic anxiety syndrome; paranoia;
corneal disorder remedy for corneal ulcer, corneal epithelial peeling
                                                                                                                                                                                             sequence is shown in the specification. The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 27; DB 2; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        alcoholism; drug addiction; chronic pain; neuron
                                                                                                                          Disclosure; Page 11; 19pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW99643 standard; peptide; 5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Substance P analogue peptide.
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                                          dry eye, keratitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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This invention describes a novel method for the use and preparation of cell activating compositions which involves preparing a cell activating cell activating a cell activating composition comprising (a) homogenizing pancreatic tissue in buffer at about neutral or higher pH to produce a homogenate; (b) removing cour neutral from the homogenate; (c) optionally incubating the resulting fractionally incubating the resulting fractionally incubating the resulting fractionating the homogenate and selecting fractions that exhibit cell cutcome or reducing risk of treatment of e.g. cardiovascular disease, cutcome or reducing risk of treatment of e.g. cardiovascular disease, contended or rejection, diabetes and diabetic complications, stroke, ischemia, crejection, diabetes and diabetic complications, stroke, ischemia, creinopathy, diabetes, venous insufficiency, unstable angina or trauma. They can be used in the veterinary treatment of a non-human subject. They can be used in the used to lower cell activation resulting from these diseases and deficiencies. The detection of an elevated level of hydrogen peroxide can be used to detect an inflammatory condition. An
                                                                                                                                                                      ö
long term supply of opioid peptides (long-term analgesia) which lasts for
up to at least 6 years. The present sequence represents a specifically
claimed substance P analogue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Use of cell activating compositions in developing products for diagnosis and treatment of e.g. cardiovascular, inflammatory, autoimmune or Alzheimer's disease, trauma, arthritis, organ rejection, diabetes, stroke or ischemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cell activation; pancreas; treatment; cardiovascular disease; trauma; inflammatory disease; autoimmune disease; arthritis; diabetes; stroke; organ rejection; ischemia; Alzheimer's disease; myocardial infarction; haemorrhagic shock; diabetic retinopathy; venous insufficiency; angina; trauma; protease inhibitor; hypertension; sepsis.
                                                                                                                                                                  Gaps
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                                                                                                                           Length 5;
                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hugli TE, Kistler E;
                                                                                                                                                                                                                                                                                                                                                                                                                           Neutrophil-activating pancreatic derived peptide 125.
                                                                                                                   100.0%; Score 27; DB 2; I 100.0%; Pred. No. 1.8e+06;
                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stoughton RB, Schmid-Schonbein GW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 9; Page 184; 184pp; English.
                                                                                                                                                                                                                                                                                                               AAY50325 standard; peptide; 5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                    Conservative
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                                                                                        Query Match
Best Local Similarity
5; Conserve
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                                                                          Sequence 5 AA;
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elevated level of hydrogen peroxide in plasma or whole blood and in the presence of superoxide dismutase (SOD) indicates leukcoyte up regulation, e.g. indicative of the onset of an acute cardiovascular disorders, such as disease onset or ischemic complications. An elevated level of hydrogen peroxide in plasma or whole blood and a low level in the presence of SOD hypertension or sepsis. AAYSO201-YSO334 represent peptides used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes a method for screening compounds for inhibiting a neurotoxin. The method involves incubating tachykinin agonists with neuronal cells and a beta-amyloid peptide neurotoxin. The methods can be used for identifying compounds for treating diseases characterised by an Down's syndrome, and the syndromes of hereditary cerebral haemorrhage with amyloidosis and non-inherited congophilic angiopathy with cerebral beta-amyloid peptide fragments. (Updated on 20-MAR-2003 to correct PF leield.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tachykinin agonist; beta-amyloid; inhibition; neurotoxin; treatment;
Alzheimer's disease; Down's syndrome; amyloidosis; human;
hereditary cerebral haemorrhage; non-inherited congophilic angiopathy.
                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Screening for neurotoxin inhibitors - by testing compounds for their effect on beta-amyloid peptide neurotoxic effect on neuronal cells.
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                                                                                                                                                                            100.0%; Score 27; DB 2; Length 5; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human tachykinin agonist beta-amyloid peptide fragment #6.
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                                                                                                                                                                                                                                                                                                                                                AAW92660 standard, peptide, 5 AA.
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(first entry)
                                                                                                                                                                                                             5; Conservative
                                                                                                                                                                        Query Match
Best Local Similarity
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                                                                                                                                                                                                                                          1 FFGLM 5
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                                                                                                                                              Sequence 5 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-1991;
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30-APR-1999
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Matches
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Best Local Similarity Matches 5, Conserv

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Bioimplant formulation for sustained delivery of an active agent over 7 days to 2 years, comprises active agent, pore-forming agent and stearin.
                                                                                                         Pharmaceutical; veterinary; gonadotropin-releasing hormone, GnRH; pore-forming agent; lecithin; stearin; P antagonist.
                                                                                                                                                                                                                        /note= "C-terminal amide"
                                                                                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 20; Page 21; 37pp; English.
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98AU-00004731.
99AU-00000324.
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                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5; Conservative
                                                                             P antagonist peptide #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Walsh JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-182528/16.
                                                                                                                                                                                                                                                                                                                                                                                                                  (PEPT-) PEPTECH LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
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                                                                                                                                                                                                       Modified-site
                                              19-MAY-2000
                                                                                                                                                           Inidentified
                                                                                                                                                                                                                                                                                                                  20-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                    20-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                 13-MAY-1999;
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                AAY67576;
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AAB91428
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The inevntion relates to a method for detecting magnesium binding defects. The method comprises quantitating a tachykinin C-terminal pentapeptide (e.g., AAB23025) and its degradation products (e.g., AAB23026) in blood using an antibody specific for the generalised mammalian tachykinin C-terminal pentapeptide Phe-(Phe/Val)-Gly-Leu-Met-NH2 (AAB23028). The method is useful for detecting cellular magnesium binding defects which are associated with abnormal physiological states such as sodium-sensitive essential hypertension and type 2 diabetes mellitus. The present sequence represents the C-terminal 5 amino acids of the tachykinin Substance P (AAB23027) from human and rat, which may be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting magnesium binding defects associated with abnormal physiological states such as sodium-sensitive essential hypertension and type 2 insulin-resistant diabetes mellitus, comprises measuring a specific pentapeptide in blood.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                     Substance P; tachykinin; human; rat; magnesium binding defect; sodium sensitive essential hypertension; insulin resistance; type 2 diabetes; antibody; immunoassay; quantification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity 100.0%; Score 27; DB 3; Length 5; Similarity 100.0%; Pred. No. 1.8e+06; 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                       Human/rat tachykinin Substance P C-terminal pentapeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   assayed according to the method of the invention
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                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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                                                                                                         AAB23025 standard; peptide; 5 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-MAR-2000; 2000WO-US003707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-00265690
                                                                                                                                                                        (first entry
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Best Local Similarity
Matches 5; Conserv
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FFGLM
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                                                                                                                                                                                                                                                                                                                                                                    Modified-site
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                                                                                                                                                                                                                                                                                                     sapiens
                                                                                                                                                                          16-JAN-2001
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                                                                                                                                                                                                                                                                                                                      Rattus sp
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AAB23025
JD AAB23
AAC AAB2
XX AAB2
XX AAB2
XX Subs
KW Subs
KW Subs
KW Subs
KW Subs
XX Homc
OS Homc
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HOMO

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The invention provides a pharmaceutical and/or veterinary formulation that comprises 2 -30% of active agents which include a gonadotropin-releasing hormone (GnRH) agonist, 0.5 - 20% of a pore-forming agent which is not lecithin, and the remainder stearin. The formulation is useful as a sustained release implant which can deliver the active agent for a period of 7 days to 2 years. Sequences AAY67573-578 represent P antagonist peptides used in the composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protection, endogenous therapeutic peptide; peptidase; conjugation, blood component; modification; succinimidy1; maleimido group; amino; hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 27; DB 3; Length 5; 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rachykinins peptide SEQ ID NO:604.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB91428 standard; peptide; 5 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
Synthetic.
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AAY67576 standard; peptide; 5 AA.

RESULT 14 AAY67576 ID AAY67

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Disclosure; Page 2; 38pp; English.
                          (SANT ) SANTEN PHARM CO LID
                                     (NISH/) NISHIDA T.
             g
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                                                                                                                                                                                                                                            The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a certain setabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in competition of succession of administration due to rapid degradation by peptidases in the body. Complicition and attaching therapeutic peptidases in the body.

Modifying and attaching therapeutic peptidases to albumin prevents or cadministration due to rapid degradation by peptidases in the body.

Complete are not suitabeled as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body.

Complete are not suitabeled as drug candidates to albumin prevents or reduces the action of peptidases to increase length of activity (half intracellular uptake and interference with physiological processes.

Complete are not suitable as drug molecules decreases controlly the present invention of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                      Modifying and attaching therapeutic peptides to albumin prevents
peptidase degradation, useful for increasing length of in vivo activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            healing; insulin-like growth factor-I; tear; abrasion; skin ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                Thibaudeau K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 27; DB 4; Length 5; 100.0%; Pred. No. 1.8e+06; Ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Substance P analog used in wound healing treatment#11.
                                                                                                                                              Holmes DL,
                                                                                                                                                                                                                         Disclosure; Page 397; 733pp; English
                                                                                                                                              Milner PG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABB10088 standard; peptide; 5 AA.
                                               17-MAY-2000; 2000WO-US013576.
                                                                         99US-0134406P.
                                                                                    99US-0153406P.
99US-0159783P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-AUG-2000; 2000JP-00242489.
28-NOV-2000; 2000JP-00361388.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          surgical incision; burn.
                                                                                                                                           Bridon DP, Ezrin AM,
                                                                                                                   (CONJ-) CONJUCHEM INC.
                                                                                                                                                                  WPI; 2001-112059/12.
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Best Local Similarity
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  WO200069900-A2
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                                                                     17-MAY-1999;
10-SEP-1999;
                                                                                              15-OCT-1999;
                        23-NOV-2000
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Matches
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The invention relates to skin wound healing promoters, containing substance P analogs or their pharmaceutically acceptable salts, and insulin-like growth factor-I as the active ingredient. The promoters are for treating wounds like tears, abrasions, surgical incisions, or skin ulcers and burns. The current sequence represents a substance P analog for use in wound healing treatment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tachykinin; substance P; hypertension; hypotensive; antidiabetic;
gynaecological; salt-insensitive hypertension; magnesium binding;
insulin resistance; type 2 diabetes mellitus; pre-eclampsia; eclampsia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                Skin wound healing promoters or skin epidermal extension promoters containing substance P analogs and insulin-like growth factor-I for treating wounds like tear, abrasion, surgical incision, skin ulcers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       are
e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 27; DB 5; Length 5; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
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/note= "C terminal-amide"
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                                                                                                                                                                                                                           Disclosure; Page 4; 20pp; Japanese.
        Nakamura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAU77845 standard; peptide; 5 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MAGN-) MAGNESIUM DIAGNOSTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-AUG-2001; 2001WO-US024909.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-AUG-2000; 2000US-00635266.
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Best Local Similarity 100.00
Si Conservative
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Nishida T, Nakata K,
                                                  WPI; 2002-269153/31.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAU77845;
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                                                                                                                                                                                burns.
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This invention relates to novel therapeutic compounds and methods used for treating mammals with disorders such as salt-insensitive bypertension. The monopeptide compounds of the invention are derived from butadienes, ethylenes and propanes. The compounds of the invention are used to correct a defect in magnesium binding within the plasma membranes of somatic cells which results in a decrease in the intracellular concentration of magnesium ions. These compounds may be used in the treatment of a mammal affected with magnesium binding defect, saltsenditus and pre-eclampsia/eclampsia. The compounds of the finvention have an advantage over prior art compounds in that these compounds are biologically stable. The present sequence represents the appentageptide from the C terminal sequence of tachykinin known as a bibter of a sufficient to correct the magnesium binding defect responsible for causing hypertension 

Sequence 5 AA;

; 0 Length 5; Indels 100.0%; Score 27; DB 5; L 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Conservative Local Similarity Ŋ FFGLM Query Match Matches ò 셤

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Gaps

'n FFGLM

RESULT 18

ADE94203 standard; peptide; 5 AA. (first entry) 12-FEB-2004 ADE94203; ADE94203

LD ADE9

AC ADE9

XX AC ADE9

XX C ADE9

XX C ADE9

XX C ADE9

ophthalmological; dermatological; vulnerary; insulin growth factor 1; IGP-1; ophthalmology; dermatology; keratic injury; wound healing; skin; corneal ulcer; exofoliation of corneal epithelium; keratitis; dry eye; scratch; surgical cutting; skin ulcer; burns. High activity minimal IGF-1-derived peptide fragment #15.

Homo sapiens

/note= "amidated C-terminus" Location/Qualifiers 5 Misc-difference

WO2003048192-A1

12-JUN-2003.

03-DEC-2002; 2002WO-JP012632

03-DEC-2001; 2001JP-00368103

(SANT ) SANTEN PHARM CO (NISH/) NISHIDA T.

Nakamura M; Nishida T, Inui M,

WPI; 2003-505280/47.

Novel peptides based on minimum activity expression units of insulin-like growth factor-1, applicable in remedies in ophthalmology and dermatology for treating keratic injury and promoting wound healing in skin. Novel peptides based growth factor-1, appl

Disclosure; Page 7; 25pp; Japanese.

The invention relates to the determination of the smallest peptide fragment of insulin growth factor 1 (IGF-1) with the highest activity for use in ophthalmology and dermatology. The peptides are applicable in

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   analgesic; Mu-opioid receptor agonist; substance P receptor agonist; chimeric hybrid; cyclic alkaloid moiety; mu opioid receptor; substance P; opioid tolerance; morphine; substance P; SP; neuropeptide; blood-brain barrier; morphine 6-glucuronide; pain; drug abuse; analgesia; cherance development; dependence formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention describes a chimeric hybrid molecule (I) of a cyclic alkaloid moiety which binds as an agonist to a mammalian/human mu opioid receptor and a peptide moiety which binds as an agonist to a mammalian/human substance P. (I) is useful for inhibiting development of opioid tolerance by chemically combining a pharmacologically active form of substance P with morphine in (I). (I) is useful for transporting an active form of SP or neuropeptide across the blood-brain barrier into the central nervous system using the active metabolite of morphine, morphine of reciprocally regulating analgesic chemicals across the blood-brain barrier into the central nervous system using (I). (I) is useful for targeed drug delivery of reciprocally regulating analgesic chemicals across the blood-brain barrier into the central nervous system using (I). (I) is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chimeric hybrid molecule useful for treating pain comprising cyclic alkaloid moiety which binds as agonist to mammalian to human mu opioid receptor and peptide moiety which binds as agonist to mammalian substance
remedies in ophthalmology and dermatology for treating keratic injury ampromoting wound healing in the skin. The keratic injury is particularly corneal ulcer, exofoliation of corneal epithelium, keratitis or dry eye. The skin wound can be scratches, surgical cutting, skin ulcer, or burns. This sequence represents one of the peptides of the invention with IGF-1 activity.
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                                                                                                                                                                     Length 5;
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Pred. No. 1.8e
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                                                                                                                                                                                                                                                                                                                                                                ADF92530 standard; peptide; 5 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Substance P receptor agonist #3.
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                                                                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  substance P receptor agonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-APR-2002; 2002US-00134187
                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                     Similarity
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                                                                                                                                  Sequence 5 AA;
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Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
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Best Local S:
Matches 5
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treating pain in a mammal and for treating drug abuse in a mammal by administering (I) in substitution for the drug on which the mammal became dependent and/or tolerant and thereafter adjusting the dosage as tolerance and/or dependence is modulated. (I) induces analgesia in a mammal with tolerance development markedly less than that of morphine. (I) efficiently modulates the activation of the MOR and to reduce or eliminate tolerance development and dependence formation. This is the amino acid sequence of a peptide that functions as a substance P receptor
                                                                                                                                                                                                                                                                                        Sequence 5 AA;
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Gaps ö Query Match
100.0%; Score 27; DB 7; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels S. S 1 FFGLM 1 FFGLM ò

ó,

ADN95078 standard, peptide; 5 AA RESULT 20

(first entry) 26-AUG-2004 ADN95078;

Mammalian substance P peptide (amino acids 7-11).

Opioid tolerance; substance P; morphine; cyclic alkaloid; mammalian; mu opioid receptor; acute pain; chronic pain; drug abuse; opioid analgesia; analgesic; antiaddictive.

Mammalia.

note= "C-terminal amide" Location/Qualifiers Modified-site

US2004106636-A1

03-JUN-2004.

17-OCT-2003; 2003US-00688741.

26-APR-2002; 2002US-00134187

(KREA/) KREAM R M.

Kream RM;

WPI; 2004-419489/39.

Inhibiting development of opioids tolerance involves use of chimeric hybrid molecules containing an opioid moiety of chemically modified

10-WAR-1999; 99US-00265690. 09-MUG-2000; 2000US-00635266. 24-JAN-2002; 2002US-0063569. 29-AUG-2002; 2002US-00230133. 28-OCT-2003; 2003US-00695536.

(WELL/) WELLS

Wells IC;

22-MAR-2004; 2004US-00805881.

Disclosure; SEQ ID NO 3; 10pp; English.

The present invention relates to a method of inhibiting the development combination of an active form of substance P with morphine in a new combination of an active form of substance P with morphine in a new chimeric hybrid molecule. The morphine is chemically modified and covalently linked through its 6'0H group, and comprises a cyclic alkaloid molecty which binds as an agonist to a mammalian or human mu opicid receptor. An active C-mu terminal substance P fragment, chemically peptide and covalently linked through its free NH2 group, comprises a mammalian/human substance P receptor. A compact, but flexible, molecular hinge covalently cross links morphine through its 6'0H group to the free NH2 group of the substance P receptor agonist constants. 

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and the substance P receptor agonist moieties to
             activate their respective receptors simultaneously and independently. The chimeric hybrid molecules are administered intrathecally, systemically, through intradermally, parenterally (e.g. subcutaneously, intravenously), through injection, transdermally, (e.g. topically), transmucosally or pain, and drug abuse. The molecules show reduced side effects. The molecules provide opicid analgesia in living subjects while inhibiting representing a peptide from mammalian substance P is used in the method
                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                      physiological disorder; preeclampsia; pregnancy;
salt-sensitive essential hypertension; type 2 diabetes mellitus; human.
                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                           Magnesium binding defect; MgBD; MgBD binding defect peptide mimetic;
                                                                                                                                                                                     ö
                                                                                                                                                              Length 5;
                                                                                                                                                                                 0; Indels
                                                                                                                                                                                                                                                                                                                                       Human magnesium binding defect (MgBD) peptide mimetic #1.
                                                                                                                                                         100.0%; Score 27; DB 8; L
100.0%; Pred. No. 1.8e+06;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                              /label= OTHER
/note= "OTHER= C-terminal amide"
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Best Local Similarity
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                                                                                                                                    Sequence 5 AA;
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Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                    RESULT 21
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Assessing predisposition to physiological disorder associated with magnesium binding defect in individual, by measuring level of amidated peptides associated with magnesium binding defect in sample and comparing peptide level to standard. The invention relates to a method of assessing a predisposition to a physiological disorder associated with a magnesium binding defect in an individual, involving measuring the level of amidated peptides associated with the magnesium binding defect in a sample of body fluid of the Claim 1; SEQ ID NO 1; 21pp; English. WPI; 2004-625105/60.

cc individual and comparing the level of peptide to a standard, where a significantly lower level of the peptide is indicative of a significantly lower level of the peptide is indicative of a predisposition of the individual to the physiological disorder associated with a magnesium binding defect in an individual, involving comparing the level of peptide to the level of peptide after treatment, where a significant increase in the level of peptide after treatment, where a significant increase in the level of peptide after treatment, where a significant increase in the level of the peptide after treatment of the progress of treatment of the individual, a monoclonal antibody that sepecifically binds to a peptide or its peptide or mimetic, a prognosis reagent for determining the presence of a magnesium binding defect, generating a deficit of plasma membrane tightly bound magnesium ion in mammalian somatic cells, collecting the somatic cells from the body fluid by centrifugation, resuspending the somatic cells from the body fluid by centrifugation, resuspending the somatic cells in a cells, measuring the level of tightly bound magnesium in the sample of the somatic cells and repeating the removing and measuring steps at significantly reduced and the somatic cells remain inteat, a method of identifying substances which promote binding of tightly bound magnesium in a physiological medicut of plasma membrane tightly bound magnesium in a physiological medicut of plasma membrane tightly bound magnesium in a physiological medicut of plasma membrane of the suspension and measuring the level of tightly bound magnesium in a physiological medicut of plasma membrane tightly bound magnesium after addition of fine substance to be tested to the suspension and measuring the level of bunding deficit of plasma membrane tightly bound magnesium in the plasma membrane of the somatic cells indicative of promotion of binding are useful for a method are useful or to the plasma membrane or amellorating to cells. The methods are useful for to preeclampsia during pregnancy, salt-sensitive essential hypertension or type 2 diabetes mellitus associated with the magnesium binding defect. The method is also useful for ameliorating or correcting a magnesium binding defect (MgBD) in an individual. This sequence represents a human MgBD mimetic peptide of the invention. predisposition to a physiological disorder associated with a magnesium binding defect in an individual, where the disorder is a predisposition 

Sequence 5 AA;

ö Length 5; 0; Indels 100.0%; Score 27; DB 8; I 100.0%; Pred. No. 1.8e+06; Mismatches .; 0 Query Match 100.
Best Local Similarity 100.
Matches 5; Conservative

FFGLM 5 ð g

Search completed: March 23, 2005, 15:32:58 Job time: 73 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

Run on:

March 23, 2005, 14:50:07; Search time 92 Seconds (without alignments) 17.995 Million cell updates/sec

SE01 Title: Perfect score:

27 1 ffglm 5 Sequence:

**BLOSUM62** Scoring table:

1407402 seqs, 331100923 residues Gapop 10.0 , Gapext 0.5 Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database :

| Cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.ppp:\*
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| Cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.ppp:\*
| CGn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.ppp:\* Published Applications AA:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Description	Sequence 1, Appli	Sequence 1, Appli	Sequence 3, Appli	Sequence 3, Appli	Sequence 1, Appli	Sequence 15, Appl	Sequence 16, Appl	Sequence 270, App	Sequence 2, Appli	Sequence 3, Appli	Sequence 2, Appli	(-)	Sequence 2, Appli	
ΙD	US-09-265-690C-1	US-10-053-669-1	US-10-134-187-3	US-10-688-741-3	US-10-805-881-1	US-10-497-628-15	US-10-497-628-16	US-10-821-240A-270	US-09-265-690C-2	US-10-230-133-3	US-10-053-669-2	US-10-695-536-3	US-10-805-881-2	•
DB	0	14	15	16	16	17	17	17	σ	14	14	16	16	
T Query Match Length DB	5	S	S	2	'n	Ŋ	2	4	4	4	4	4	4	
Query Match	100.0	100.0	100.0	100.0	100.0	100.0	88.9	81.5	77.8	77.8	77.8	77.8	77.8	
Score	27	27	27	27	27	27	24	22	21	21	21	21	21	
Result No.	1	7	m	4	2	9	7	æ	σ	10	11	12	13	

RESULT 2 US-10-053-669-1 Sequence 1, Application US/10053669 ; Publication No. US20030077658A1

1 FFGLM 5 

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Sequence 2, Appli Sequence 17, Appl Sequence 17, Appl Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli	4 2 4 4 8 4 2 8 8 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
US-10-497-628-2 US-10-346-737A-30 US-10-497-628-17 US-09-256-690C-4 US-10-053-669-4 US-10-695-536-4	10-805-881 10-346-737 10-346-737 10-35-140 10-351-641 10-822-661 10-822-661 10-822-661 10-823-661 10-823-661 10-920-306 10-788-789	\$-09-886-135 \$-10-620-052 \$-10-620-052 \$-10-337-105 \$-10-891-122 \$-10-231-136 \$-10-823-964 \$-09-920-306 \$-10-10-1499 \$-10-11-196
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#### ALIGNMENTS

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US-09-265-690C-1
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LOCATION: (5)...(5)
CTHER INFORMATION: AMIDATION
US-09-265-690C-1
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Best Local Similarity 100.
Matches 5; Conservative
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ORGANISM: Homo sapiens
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APPLICANT: Wells, Ibert C.
TILLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
TITLE OF INVENTION: Magnesium for Disease Diagnosis
TITLE OF INVENTION: Magnesium for Disease Diagnosis
FILE REFERENCE: 800812-0005
CURRENT APPLICATION NUMBER: US/10/805,881
CURRENT APPLICATION NUMBER: US 10/653,669
PRIOR APPLICATION NUMBER: US 10/695,536
PRIOR FILING DATE: 2003-10-28
SOFTWARE: PATCHING VERSION 3.2
SOFTWARE: PATCHING VERSION 3.2
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APPLICANT: Tetuo Nishida

APPLICANT: Tetuo Nishida

APPLICANT: Masateugu Nakamura

TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME

TITLE OF INVENTION: NUMBER: US/10/497,628

CURRENT APPLICATION NUMBER: US/10/497,628

PRIOR APPLICATION NUMBER: US/2001-368103

PRIOR APPLICATION NUMBER: US/2001-368103

PRIOR PELLING DATE: 2001-12-01

NUMBER OF SEQ ID NOS: 17

SOFTWARE: Patentin Ver: 2.1

LENGTH: 5
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100.0%; Pred. No. 1.3e+06;
iive 0; Mismatches 0;
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100.0%; Pred. No. 1.3e+06;
tive 0; Mismatches 0;
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US-10-497-628-15
; Sequence 15, Application US/10497628
; Publication No. US20050009752A1
                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1, Application US/10805881; Publication No. US20040171093A1; GENERAL INFORMATION:
                           SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; LOCATION: (5)...(5)
; OTHER INFORMATION: AMIDATION
US-10-805-881-1
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Best Local Similarity 100.
Matches 5; Conservative
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Best Local Similarity 100..
E. S; Conservative
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ORGANISM: Homo sapiens
                                                                                          TYPE: PRT
CORGANISM: mammalian
US-10-688-741-3
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; ORGANISM: Human
US-10-497-628-15
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GENERAL INFORMATION:

APPLICANT: Wells, Ibert
IITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
TITLE OF INVENTION: for Disease Diagnosis
FILE REFERENCE: N1427-005
CURRENT APPLICATION NUMBER: US/10/053,669
CURRENT FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: 09/265,690
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
LENGTH: 5
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Sequence 3, Application US/10688741

; Sequence 3, Application US/10688741

; Publication No. US20040106636A1

; GENERAL INFORMATION:

APPLICANT: Kream, Richard M.

APPLICANT: Kream, Richard M.

; APPLICANT: Kream, Richard M.

; TITLE OF INVENTION: Method Of Inhibiting Opioid Tolerance Development With Chimeric 1

; TITLE OF INVENTION: Analgesics

; TITLE REFERENCE: Kream

; CURRENT APPLICATION NUMBER: US/10/688,741

; CURRENT FILING DATE: 2003-10-17
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100.0%; Pred. No. 1.3e+06;
tive 0; Mismatches 0;
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APPLICANT: Kream, Richard M.
APPLICANT: Kream, Richard M.
APPLICANT: Kream, Richard M.
TITLE OF INVENTION: Chimeric Hybrid Analgesics
FILE REFERENCE: Kream
CURRENT FAPLICATION NUMBER: US/10/134,187
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 3
SOFTWARE: Patentin version 3.1
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3, Application US/10134187
Publication No. US20030202981A1
GENERAL INFORMATION:
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; LOCATION: (5)...(5)
; OTHER INFORMATION: AMIDATION
US-10-053-669-1
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Best Local Similarity 100.
Matches 5; Conservative
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Best Local Similarity 100.
Matches 5; Conservative
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ORGANISM: Homo sapiens
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APPLICANT: Wells, Ibert
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mag
TITLE OF INVENTION: for Disease Diagnosis
FITLE OF INVENTION: for Disease Diagnosis
CURRENT APPLICATION NUMBER: US/09/265,690C
CURRENT FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
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Publication No. US2003004062SA1

Publication No. US2003004062SA1

Publication No. US2003004062SA1

APPLICANT: Wells, IDert

TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and TITLE OF INVENTION: methods for treatment of abnormal physiological states

FILE REFERENCE: 2892-106

CURRENT APPLICATION NUMBER: US/10/230,133

CURRENT FILING DATE: 2002-08-29

PRIOR APPLICATION NUMBER: 09/635,266

PRIOR APPLICATION NUMBER: 09/635,266

PROPER APPLICATION NUMBE
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                                                                                                                                                       Sequence 2, Application US/09265690C
Publication No. US20010051345A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: MOD RES
LOCATION: (4)...(4)
COTHER INFORMATION: AMIDATION
US-09-265-690C-2
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ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
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US-10-230-133-3
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US-10-821-240A-270
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FILE REFERENCE: 04355/HG
CURRENT APPLICATION NUMBER: US/10/497, 628
CURRENT APPLICATION NUMBER: JP 2001-368103
PRIOR APPLICATION NUMBER: JP 2001-368103
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 16
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                                100.0%; Score 27; DB 17; Length 5; 100.0%; Pred. No. 1.3e+06; Live 0; Mismatches 0; Indels
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Pred. No. 1.3e+06;
1; Mismatches 0; Indels
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Sequence 270, Application US/10821240A
Fublication No. US20050037430A1
GENERAL INFORMATION:
APPLICANT: Khan, Nisar A.
TITLE OF INVENTION: Gene regulator
FILE REFERENCE: 2183-5223US
CURRENT APPLICATION NUMBER: US/10/821,240A
CURRENT APPLICATION NUMBER: 10/028,075
FRIOR APPLICATION NUMBER: EP 01203748.7
FRIOR FILING DATE: 2001-12-21
FRIOR FILING DATE: 2001-10-04
NUMBER OF SEQ ID NOS: 312
SOFTWARE: PatentIN Ver. 2.1
SEQ ID NO 270
                                                                                                                                                                                                                                                                                                               RESULT 7
US-10-497-628-16
; Sequence 16, Application US/10497628
; Bublication No. US2005009752A1
; GENERAL INFORMATION:
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Best Local Similarity 80.0%;
Matches 4; Conservative
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Query Match
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100 5; Conservative
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ORGANISM: Human
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Sequence 2, Application US/10497628
FOURTHAL INFORMATION:
GENERAL INFORMATION:
FAPLICANT: Teruo Mishida
FAPLICANT: Mascio Inui
APPLICANT: Mascio Inui
APPLICANT: Mascio Inui
FILE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
CURRENT APPLICATION NUMBER: US/10/497,628
FRICA REPLICATION NUMBER: JP 2001-368103
FRICA FILING DATE: 2001-12-01
NUMBER OF SEQ ID NOS: 17
SOFTWARE PATENTING DATE: 2001-12-01
NUMBER PATENTING DATE: 201-12-01
NUMBER PATENTING DATE: 201-12-01
SOFTWARE PATENTING DATE: 201-12-01
SOFTWARE PATENTING DATE: 201-12-01
SOFTWARE PATENTING DATE: 201-12-01
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Publication Vo. US20040142379A1
GENERAL INFORMATION:
APPLICANT: St. Hilaire, Phaedria
TITLE OF INVENTION: AFFINITY FISHING FOR LIGANDS AND PROTEIN RECEPTORS
FILE REPRENCE: 11222.16US01
CURRENT APPLICATION NUMBER: US/10/346,737A
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patentin version 3.1
SEQ ID NO 30
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Pred. No. 1.3e+06;
               FILE OF INVENTION: Magnesium for Disease Diagnosis;
FILE REFERENCE: 800812-0005;
CURRENT APPLICATION NUMBER: US/10/805,881
CURRENT FILING DATE: 2004-03-22;
FRIOR APPLICATION NUMBER: US 10/695,669
FRIOR PRING APPLICATION NUMBER: US 10/695,536
FRIOR APPLICATION NUMBER: US 10/695,536
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PATENTIN VERSION 3.2
SEQ ID NO 2
LENGTH 4
TWON 1.1
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100.0%; Pred. No. ...
0; Mismatches
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NAME/KEY: MOD_RES

LOCATION: (4)...(4)

OTHER INFORMATION: AMIDATION
US-10-805-881-2
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Matches 4; Conservative
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Best Local Similarity 100.
Matches 4; Conservative
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ORGANISM: Homo sapiens
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ORGANISM: Human
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GENERAL INFORMATION:
APPLICANT: Wells, Ibert
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
TITLE OF INVENTION: for Disease Diagnosis
FILE REFERENCE: N1427-005
CURRENT APPLICATION NUMBER: US/10/053,669
PRIOR APPLICATION NUMBER: 09/265,690
PRIOR FILING DATE: 1999-03-10
SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
LENGTH: 4
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Publication No. US20040110692A1
Publication No. US20040110692A1
APPLICANT: Wells, Ibert Clifton
TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agente TITLE OF INVENTION: and Methods for Treatment of Abnormal Physiological States CURRENT APPLICATION NUMBER: US/10/695,536
CURRENT APPLICATION NUMBER: US 10/230,133
PRIOR FILING DATE: 2003-10-28
PRIOR FILING DATE: 2000-08-29
PRIOR FILING DATE: 2000-08-29
RIOR PILING DATE: 2000-08-29
RIOR PILING DATE: 2000-08-30
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Sequence 2, Application US/10805881;
Publication No. US20040171093A1;
GENERAL INFORMATION:
APPLICANT: Wells, Ibert C.
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
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100.0%; Pred. No. 1.3e+06;
Vative 0; Mismatches 0;
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; LOCATION: (4)...(4)
; CTHER INFORMATION: AMIDATION
US-10-053-669-2
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; OTHER INFORMATION: AMIDATION
US-10-695-536-3
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Matches 4; Conservative
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Best Local Similarity 100.
Matches 4; Conservative
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ORGANISM: Homo sapiens
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ORGANISM: Homo sapiens
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US-10-695-536-3
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TYPE: PRT

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
FEATURE:

COTHER INFORMATION: Peptide

FEATURE:

COTHER INFORMATION: Xaa is T(Sa)

US-10-346-737A-30

Query Match

Matches 4; Conservative 0; Mismatches 0; Indels 0;

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                                                                                                                              March 23, 2005, 14:37:21; Search time 30 Seconds (without alignments) 12.442 Million cell updates/sec
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Sequence 48, A
Sequence 49, A
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Sequence 2, Ap
Sequence 3, Ap
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2: /cgn2 6/ptodata/1/iaa/5B COMB.pep:*
3: /cgn2 6/ptodata/1/iaa/6B COMB.pep:*
4: /cgn2 6/ptodata/1/iaa/6B COMB.pep:*
5: /cgn2 6/ptodata/1/iaa/PCTUS COMB.pep:*
5: /cgn2 6/ptodata/1/iaa/PCTUS COMB.pep:*
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Sequence 1 Sequence 4 Sequence 5 Sequence 5 Sequence 5 Sequence 6 Sequence 1 Sequence 1 Sequence 1 Sequence 1 Sequence 1 Sequence 2 Sequence 2 Sequence 2 Sequence 2 Sequence 2 Sequence 3 Sequence 3 Sequence 2 Sequence 3 Sequence 3		19 E	0 ; 0	
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		US/07934553  N, ROY KATHLEEN E METHIEBEN E ANTIBODIES: 5 5 5 5 8.9 i, FALLON, LUI WACKER DRIVI RM: COMPAILED DATA: 1. US 07/705 MATTON: 1. USAN B		
		NA, ROY KATHLEEN KATHLEEN ANTIBODIS S SSS: I, FALLON, I WACKER DI DATA: COMPATIBL PC-DOS/M IN Release DATA: COMPATIBL RC-BOS/M IN Release NAT-1991 WAT-1991	100.0% 100.0% ive	
0,0101014014444444444		T 1  -934-553-2  uence 2, Application US/07934553  uence 2, Application US/07934553  NERAL INFORMATION: APPLICANT: PATTERSON, ROY APPLICANT: HARRIS, KATHLEEN E TITLE OF INVENTION: MATHBODIES T AUMBER OF SEQUENCES: ADDRESSEE: TILTON, FALLON, LUN STREET: 100 SOUTH WACKER DRIVE CITY: CHICAGO STREET: 100 SOUTH WACKER DRIVE CITY: CHICAGO STREET: 11LINOIS COUNTRY: USA ZIP: 6666-4002 COMPUTER READABLE FORM: MEDIUM TYPE: PLOPPY disk COMPUTER READABLE FORM: MEDIUM TYPE: 11BM PC COMPATION SOFTWARE: PECENTION DATA: APPLICATION NUMBER: US/07/934, FILING DATE: 24-MAY-1991 ATTORNEY/ACENT INFORMATION: NAME: FENTRESS, SUSAN B RECISTRATION NUMBER: US 07/705, FILING DATE: 24-MAY-1991 ATTORNEY/ACENT INFORMATION: NAME: FENTRESS, SUSAN B RECISTRATION NUMBER: US 07/705, FILING DATE: 2131,327 REFERENCE/DOCKET NUMBER: US TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION INFORMATION: TELECOMMUNICATION OCID STRANDEDNESS: unknown MOLECULE TYPE: DAILOR OF SEG 1D NO: 2: SEQUENCE TYPE: DAILOR OF SEG 1D STRANDEDNESS: unknown MOLECULE TYPE: POPPLOGY: unknown POPPLOGY: unknown MOLECULE TYPE: POPPLOGY: UNKNOWN POPPLOGY: unkn	vat	
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		2.2 3.44600000000000000000000000000000000000	Simi]	FFGI
888888888888888888888888888888888888888		T 1  -914-553-2  uence 2, Applicuence 2, Applicuence 2, Applicuent No. 531469  APPLICANT: PA APPLICANT NOWER TATE: TILLII OPERATING SY SOFTWARE: PAPLICANTON PAPLICATION PREPRENTING SY SOFTWARE: PAPLICATION PREPRENCE/DO TELECOMMUNICAT APPLICATION APPLICATION PROGRESS TATORNEY AGENT: PAPLICANTON PREPRENCE/DO TELECOMMUNICAT APPLICANTON PROGRESS AMINO STRANDEDNESS TYPE: AMINO STRANDEDNESS TOPOLOGY: WOLECULE TYPE:	atch cal 9	Н
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		RESULT 1  US-07-934-553-2  Sequence 2, Application US/07934553  PATCH NO. 5314690  GENERAL INFORMATION: APPLICANT: PATTERSON, ROY TITLE OF INVENTION: METHOD AND COTTILE OF INVENTION: ANTIBODIES TO NUMBER OF SEQUENCES: ADDRESSEE: TILTON, FALLON, LUNGSTREET: 100 SOUTH WACKER DRIVE CITY: CHICAGO STREET: 100 SOUTH WACKER DRIVE CITY: CHICAGO STATE: ILLINOIS COUNTRY: USA ZIP: 60606-4002  COMPUTER READABLE FORM: ASTATE: 19920821  COMPUTER: 19920821  COMPUTER: 19920821  COMPUTER: 19920821  COMPUTER: 19920821  CLASSIFICATION NUMBER: US/07/934,5  FILING DATE: 24-MAY-1991  ATTORNEY AGENT INFORMATION: APPLICATION NUMBER: US O7/705,0  FILING DATE: 24-MAY-1991  ATTORNEY AGENT INFORMATION: TELEFORMUTICATION NUMBER: US O7/705,0  FILING DATE: 24-MAY-1991  ATTORNEY AGENT INFORMATION: TELEFORMUTICATION NUMBER: US O7/705,0  FILING DATE: 24-MAY-1991  ATTORNEY AGENT INFORMATION: TELEFORMUTICATION NUMBER: US O7/705,0  FILING DATE: 34-15466-8000  INFORMATION FOR SEC ID NO: 2: SEQUENCE CHARACTERISTICS: LEMOTH: S AMINO ACID STRANDEDNESS: unknown  MOLEOUTE TYPE: POPLICATION  M	Query Match Best Local S Matches	
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Sequence 1, 2019 1, 2019
Sequence 2, 201
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Sequence 1, Application US/09265690C
Fatence 1, Application US/09265690C
Fatence 1, Application US/09265690C
GENERAL INFORMATION:
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Maç
TITLE OF INVENTION: for Disease Diagnosis
FILE REFERENCE: 1427001
CURRENT APPLICATION NUMBER: US/09/265,690C
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin Version 3.0
SEQ ID NO 1
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 27; DB 2; Length 5; 100.0%; Pred. No. 4.1e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
COUNTRY: US
ZIP: OCIOUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows5
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/737,371E
FILING DATE: 29-JUL-1991
CLASSIFICATION NUMBER: 07/559,172
FILING DATE: 27-JUL-1990
ATPORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRAMION NUMBER: 0108/028002
ATTORNEY/AGENT INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: 617-542-5070
TELEFAX: 617-542-8906
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
worne. amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:

NAME/KEY: MOD RES

LOCATION: (5)...(5)

OTHER INFORMATION: AMIDATION
US-09-265-690C-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear; MOLECULE TYPE: protein US-07-737-371E-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 FFGLM S
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RESULT 5

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Sequence 49, Application US/07737371E
; Sequence 49, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
    APPLICANT: Yankner, Bruce A.
    TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
    TITLE OF INVENTION: NERROTOXIN INHIBITORS (AS AMENDED)
    NUMBER OF SEQUENCES: 77
    CORRESPONDENCE ADDRESS:
    STREET: 225 Franklin Street
    CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.5%; Score 22; DB 2; Length 5; 100.0%; Pred. No. 4.1e+05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the LOCATION: 5...5
CTHER INFORMATION: where Xaa at position 5 is Nle US-07-737-371E-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEG for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/737,371E
FILING DATE: 29-JUL-1991
CLASSIFICATION NUMBER: 07/559,172
APPLICATION NUMBER: 07/559,172
FILING DATE: 27-JUL-1990
ATTONNEY/AGENT INFORMATION:
NAME: Freeman, John W.
                                                                         CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/559,172
FTLING DATE: 27-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
FEFERENCE/DOCKET NUMBER: 29,066
TELECOMMUNICATION INFORMATION:
TELEFAX: 617-542-6070
TELEFAX: 617-542-6070
TELEFAX: 617-542-6070
TELEFAX: 617-542-8006
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                00108/028002
                        US/07/737,371E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Freeman, John W. REGISTRATION NUMBER: 29,066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 00
TELECOMMUNICATION INFORMATION
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          49:
                      APPLICATION NUMBER: US/0
FILING DATE: 29-JUL-1991
CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-07-737-371E-49
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US-07-737-371E-47

i Sequence 47, Application US/07737371E

j Patent No. 5876948

i GENERAL INFORMATION:

APPLICANT: Yankner, Bruce A.

TITLE OF INVENTION:

NUMBER OF SEQUENCES: 77

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STRRET: 225 Franklin Street

CITY: Boston
             Sequence 48, Application US/0773731E
Fatent No. 5876948
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
WUMBER OF SEQUENCES: 77
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88.9%; Score 24; DB 2; Length 5; 80.0%; Pred. No. 4.1e+05; vative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/737,371E
FILING DATE: 29-JUL-1991
CLASSIFICATION. 536
PRIOR APPLICATION NUMBER: 07/559,172
FILING DATE: 27-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00108/028002
TELEDHONE: 617-542-5070
TELEPHONE: 617-542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSEQ for Windows Version 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STAIL:
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: 200154
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 5 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; MOLECULE TYPE: protein US-07-737-371E-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 FFGLM 5
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US-07-737-371E-48
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Gaps

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; TOPOLOGY;
US-08-303-362A-63
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                                                                                                                    ; LOCATION: 5...5
; OTHER INFORMATION: where Xaa at position 5 is ethionine
US-07-737-371E-49
                                                                                                                                                                                                                           81.5%; Score 22; DB 2; Length 5; 100.0%; Pred. No. 4.18+05; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER REALABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage COMPUTER: IBM compatible OPERATING SYSTEM: MS-DOS SOFTWARE: Wordberfect 5.1 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INPORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: SWARBON & BRATECHUM, L.L.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE: 9-SEPTEMBER-1994

PRIOR APPLICATION NUMBER: 08/303,362

FILING DATE: 9-SEPTEMBER-1994

APPLICATION NUMBER: 07/714,131

FILING DATE: 10-JUNE-1991

PRIOR APPLICATION NUMBER: 07/91,473

FILING DATE: 17-AUGUST-1992

PRIOR APPLICATION NUMBER: 08/117,991

FILING DATE: 8-SEPTEMBER 1993

PRIOR APPLICATION NUMBER: 07/964,624

FILING DATE: 11-JUNE-1990

PRIOR APPLICATION NUMBER: 07/964,624

FILING DATE: 11-JUNE-1990

RAPPLICATION NUMBER: 07/964,624

FILING DATE: 21-OCTOBER-1992

ATTORNEY/AGENT INFORMATION:

NAME: BALTY J. SWANISON

REGISTRATION NUMBER: 33,215

REFERENCE/DOCKET NUMBER: NEX21/C

TELLORD NUMBER: 33,215

REFERENCE/DOCKET NUMBER: NEX21/C

TELLORD NUMBER: 33,215

REFERENCE/DOCKET NUMBER: NEX21/C

TELECOMMUNICATION INGRAMATION:

TELECOMMUNICATION INGRER: NEX21/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
US-08-441-591-63
; Sequence 63, Application US/08441591
; Patent No. 5637682
                                                                                                                                                                                                                Query Match
Best Local Similarity 100.0
Matches 4; Conservative
5 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (303) 793-3333 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
             TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 80111
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Gaps
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                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                              77.8%; Score 21; DB 1; Length 4; 100.0%; Pred. No. 4.1e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTEX: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,362A
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
REING DATE: 17-AUGUST-1992
PRIOR APPLICATION NUMBER: 07/536,428
FILING DATE: 0-SEPTEMBER 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 10-COTOBER-1992
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 07/94,624
FILING DATE: 1-COTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: BATTY J. SWANSON
REGISTRATION NUMBER: NEX21
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: NIEUWIANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSE: Swanson & Bratschun, L.L.C.
STREET: 8400 B. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              77.8%; Score 21; DB 1; Length 4; 100.0%; Pred. No. 4.1e+05;
                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 63, Application US/08303362A; Patent No. 5648214; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LEMEFAX: (303) 793-3333
INFORMATION FOR SEQ ID NO: 63:
EBGTH: 4
TVDE
                                                                                                                                                                                                                                                     4; Conservative
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-441-591-63
                                                                                                                                                                       Query Match
Best Local Similarity
Matches 4; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
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Best Local Similarity
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Patent No. 666420
GENERAL INFORMATION:
APPLICANT: Wells, IDert
TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
TITLE OF INVENTION: methods for treatment of abnormal physiological states
FILE REFERENCE: 2892-106
CURRENT APPLICATION NUMBER: US/10/230,133
PRIOR APPLICATION NUMBER: 09/635,266
PRIOR APPLICATION NUMBER: 09/635,266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: WIEUMLANDT, DAN
APPLICANT: WIEUMLANDT, DAN
APPLICANT: WECKER, MATTHEW
APPLICANT: SCHNEIDER, DANIEL J.
APPLICANT: SCHNEIDER, DANIEL J.
APPLICANT: FEIGON, JULI
APPLICANT: SULLENGER, BRUCE A
APPLICANT: SULLENGER, BRUCE A
APPLICANT: BUILENGER, BRUCE A
APPLICANT: INSULIN RECEPTOR ANTIBODIES, TACHYKININ SUBSTANCE
TITLE OF INVENTION: INSULIN RECEPTOR ANTIBODIES, TACHYKININ SUBSTANCE
TITLE OF INVENTION: P, HIV INTEGRASE AND HIV-1 REVERSE TRANSCRIPTASE
NUMBER OF SEQUENCES: 239
CORRESSED: SWARBON & Bratechun, L.L.C.
ADDRESSEE: SWARBON & Bratechun, L.L.C.
ATREET: 8400 E, Prentice Avenue, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordberfect 5.1
CURRENT APPLICATION DATA:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 80, Application PC/TUS9505600 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08/248,632
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    Sequence 3, Application US/10230133
                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
SEQ ID NO 3
LENGTH: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/23
FILING DATE: 06-MAY-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (4)...(4)
COTHER INFORMATION: AMIDATION
US-10-230-133-3
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FILING DATE: 24-MAY-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 FGLM 5
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Patent No. 6455734
GENERAL INFORMATION:
APPLICANT: Wells, IDert
TITLE OF INVENTION: methods for treatment of abnormal physiological states
TITLE OF INVENTION: methods for treatment of abnormal physiological states
TITLE OF INVENTION: methods for treatment of abnormal physiological states
CURRENT APPLICATION NUMBER: US/09/635,266
CURRENT FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.0
                                                                                                                                                                             US-09-265-690C-2

Sequence 2, Application US/09265690C

Sequence 2, Application US/09265690C

Sequence 2, Application US/09265690C

GENERAL INFORMATION:

APPLICANT: Wells, Ibert

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma

TITLE OF INVENTION: for Disease Diagnosis

FILE REFERENCE: 1427001

CURRENT APPLICATION NUMBER: US/09/265,690C

CURRENT FILING DATE: 1999-03-10

NUMBER OF SEQ ID NOS: 4

SOFTWARE: Patentin version 3.0

SEQ ID NO 2

SEQ ID NO 2
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    0; Mismatches
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| NAME/KEY: MOD.RES | LOCATION: (4) ... (4) |
| OTHER INFORMATION: AMIDATION US-09-265-690C-2
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NAME/KEY: MOD_RES
LOCATION: (4)...(4)
OTHER INFORMATION: AMIDATION
4; Conservative,
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ORGANISM: Homo Bapiens
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Best Local Similarity
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US-10-230-133-3
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RESULT 15
US-07-753-909B-3
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TITLE OF INVENTION: AMIDATION, AND METHOD OF PREPARING SAME AND USE THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEGHET, Cantor, Mueller & Dlaver D.
                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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STATE: D.C.
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                          Score 21; DB 5;
Pred. No. 4.1e+0
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APPLICATION NUMBER: 08/303,362
FILING DATE: 09-SEPTEMBER-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6, Application US/08070301
Patent No. 5871995
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IIDA, Toshio
KAMINUMA, Toshihiko
FUSE, Yuka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : TAJIMA, Masahiro
: YANAGI, Mitsuo
: OKAMOTO, Hiroshi
: KISHIMOTO, Jiro
: IFUKU, Ohji
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U.S.A.
ZIP: 20036-8218
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                             ) TOPOLOGY:
PCT-US95-05600-80
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US-08-070-301-6
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Query Match
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FF 9106759
FILING DATE: 04-UUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Sease, Edmund J.
FREGISTRATION NUMBER: 24,741
FREGISTRATION NUMBER: 24,741
FRECOMMUNICATION INFORMATION:
TELEPHONE: (515)-288-3667
FILEFRAX: (515)-288-3667
FILEFRAX: (515)-288-367
FILEFRAX: (515)-288-367
FILEFRAX: (515)-288-3667
FILEFRAX: (515)-288-3667
FILEFRAX: (515)-288-138
FILEFRAX: (1515)-288-3667
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FILEFRAX: (1515)-288-361
FILEFRAX: (1515)-388-38
FILEF
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Gaps .; 0

Search completed: March 23, 2005, 14:50:58 Job time : 31 secs

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

March 23, 2005, 14:38:05; Search time 23.5 Seconds (without alignments) 20.472 Million cell updates/sec Run on:

SEQ2 25 1 fvglm 5 Title:

Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 seqs, 96216763 residues Searched:

206 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
(: pir4:\* 2 6 4 .. .. :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	27.5 kda structura	LO.	27.5K structural p	28.5K structural p	structural	Ig heavy chain CRD	-enkephalin	Ig heavy chain CRD	ell rec	cocoonase (EC 3.4.	fulicin - giant Af	cholecystokinin-5	serrawettin W2 - S	T-cell receptor be	alkanal monooxygen	Leu-enkephalin - b	recei	spinal cord peptid	etica]	COI intron 16 prot	synaptosomal-assoc	carbon-monoxide de	neuropeptide Antho	FMRFamide - polych	T-cell receptor be	tyrosine-melanocyt	cardioexcitatory n	hetic	actin I - malaria
SUMMERTES																														
SUM	Ω	G44817	144817	E44817	C44817	A44817	PT0240	A61445	PT0278	A53284	B61168	A44692	A32516	A58728	PT0633	A44955	B61445	PT0572	B23751	T30569	138888	E44823	PL0140	A35779	A60418	PT0721	A32039	ECNK	T10954	B45525
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synaptosomal-assoc	T-cell receptor be	surface protein te	T-cell receptor be	T-cell receptor be	blood cell protein	growth-modulating	bursin - chicken	spinal cord peptid	antho-RFamide neur	hypothetical prote	starvation-induced	autho-RF amide neu	RPCH-related neuro	myosin-light-chain	Ig mu chain V regi
D44823	PT0713	869237	PT0636	PT0571	868328	GKHU	A60898	A23751	ECXAA	D41654	S53508	A25844	A34626	839390	S43959
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30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

## ALIGNMENTS

RESULT 1 G44817 27.5 kda structural protein - Leuconostoc oenos phage P32 (fragment) C5.5pecies: Leuconostoc oenos phage P32 C;0secies: Leuconostoc oenos phage P32 C;0stec: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998 C;Accession: G44817	R.Arendt, E.K.; Lonvaud, A.; Hammes, W.P. J. Gen. Microbiol. 137, 2135-2139, 1991 A.fritle: Lysogeny in Leuconostico cenos. A.fritle: Lysogeny in Leuconostico cenos. A.fricessation: 644817, MUID:92085033; PMID:1748868 A.faccessation: 644817 A.folecule type: protein A.fresidues: 1-5 <are> A.folec: sequence extracted from NCBI backbone (NCBIP:70333)</are>	Query Match 56.0%; Score 14; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 2 VGL 4         3 VGL 5
RESULT 1 G44817 27.5 kda 6 C, Species C, Date: 3 C, Accessic	R; Arendt, J. Gen. M A; Title: A; Referent A; Accessin A; Molecul A; Residue	Query Ma Best Loo Matches Qy Db

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73.5K. structural protein - Leuconostoc oenos phage P37 (fragment)
C;Species: Leuconostoc oenos phage P37
C;Adres 11-Mar-1993 #sequence\_revision 22-May-1998 #text\_change 22-May-1998
C;Accession: I44817
B;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
J. Gen. Microbiol. 137, 2135-2139, 1991
A;Title: Lysogeny in Leuconostoc oenos.
A;Title: Lysogeny in Leuconostoc oenos.
A;Accession: I44817
A;Molteine type: protein
A;Molteine type: protein
A;Note: sequence extracted from NCBI backbone (NCBIP:70330) RESULT 2 I44817

Gaps ; 0 Query Match 56.0%; Score 14; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 3; Conservative 0; Mismatches 0; Indels

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2 VGL 4 셤 ે

RESULT 3
44817
27.5K structural protein - Leuconostoc oenos phage P54 (fragment)
C;Species: Leuconostoc oenos phage P54

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T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
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Matches
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A53284
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C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998 C;Accession: E44817
R;Arcadt, E.K.; Lonvaud, A.; Hammes, W.P.
G. Gen. Microbiol. 137, 2135-2139, 1991
A;Title: Lysogeny in Leuconostco cenos.
A;Reference number: A44817; MUID: 92085033; PMID:1748868
A;Mccession: E44817
A;Molecule type: protein
A;Molecule type: protein
A;Molecule cype: protein
A;Note: sequence extracted from NCBI backbone (NCBIP:70336)
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28.5K structural protein - Leuconostoc oenos phage PAt5-12 (fragment)
28.5K structural protein - Leuconostoc oenos phage PAt5-12 (fragment)
C;Species: Leuconostoc oenos phage PAt5-12
C;Accession: G44817
B;Accession: G44817
A;Ttle: Lysogeny in Leuconostoc oenos
A;Reference number: A44817; MUID:92085033; PMID:1748868
A;Accession: G44817
A;Molecule type: protein
A;Residues: 1-5
A;Residues: 1-5
A;Residues: 1-5
A;Residues: 1-5
A;Residues: 1-5
A;Residues: 1-5
A;Rote extracted from NCBI backbone (NCBIP:70341)
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A44817
28K structural protein - Leuconostoc oenos phage PZ111-15 (fragment)
25K structural protein - Leuconostoc oenos phage PZ111-15
C.Species: Leuconostoc oenos phage PZ111-15
C.Species: Janar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C.Accession: A4817
B.A. Zanyandt, B.K.; Lourvaud, A.; Hammes, W.P.
B. Arachaft, E.K.; Lourvaud, A.; Hammes, W.P.
A.Title: Lysogeny in Leuconostoc oenos.
A.Reference number: A44817; MUID:92085033; PMID:1748868
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Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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A;Residues: 1-5 <ARE>
A;Note: sequence extracted from NCBI backbone (NCBIP:70343)
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Matches 3; Conservative
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Best Local Similarity
Matches 3; Conserv
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3 VGL 5
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C; Accession: PT0240
R; Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
A; Tamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
A; Title: Preferential utilization of specific immunoglobulin heavy chain diversity and Jc.
A; Reference number: PT022; MUID: 91108337; PMID: 1899102
A; Accession: PT044
A; Molecule type: DNA
A; Residues: 1-4 < YAM>
A; Residues: 1-
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Net-enkephalin - blue mussel
Net-enkephalin - blue mussel
C;Species: Mytilus edulis (blue mussel)
C;Species: Mytilus edulis (blue mussel)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
C;Accession: A6144 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
Exiteumy, M.K.; Stefano, G.B.
Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A;Tille: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis **
A;Reference number: A61445; MUID:84144823; PMID:6583690
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: Pr0278
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and jc
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Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 1; Indels
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Query Match
Best Local Similarity 20.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 3; Mismatches 1; Indels
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A;Residues: 1-5 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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A;Residues: 1-5 <LEU>
A;Experimental source: pedal ganglia
C;Keywords: neuropeptide; opioid peptide
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cholecystokinin-5 - dog
cholecystokinin-5 - dog
NyAlternate names: CCK-5
NyAlternate names: CCK-5
CiSpecies: Canis lupus familiaris (dog)
C;Species: Canis lupus familiaris (dog)
C;Species: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
C;Accession: A32516
A;Ritle: CCK-5: sequence analysis of a small cholecystokinin from canine brain and intest A;Reference number: A32516; MUID:87153871; PMID:3826354
A;Accession: A3216
A;Molecule type: protein
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C;Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecysto)
C;Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecysto)
C;Superfamily: qastrin
C;Keywords: amidated carboxyl end; neuropeptide
F;S/Modified site: amidated carboxyl end (Phe) #status experimental
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C;Species: Mus musculus (house mouse)
C;Species: JT-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
C;Accession: PT0633
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions. A;Reference number: PT0609; MUID:91277601; PMID:1711558
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C;Species: Achatina fulica (giant African snail)
C;Date: 23-Mar-1995 #sequence_revision 05-Apr-1995 #text_change 09-Jul-2004
C;Accession A44692
R;Ohta, N.; Kubota, I.; Takao, T.; Shimonishi, Y.; Yasuda-Kamatani, Y.; Minakata, H.; No Biochem. Biophys. Res. Commun. 178, 486-493, 1991
A;Title: Fulicin, a novel neuropeptide containing a D-amino acid residue isolated from the A;Reference number: A44692; MUID:91315471; PMID:1859408
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Ozway-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C;Accession: A53284
R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
MOJ. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences of germline diversity and A;Title: Evolutionarily conserved organization and sequences of germline diversity and A;Accession: A53284; MUID:91342695; PMID:1678859
A;Accession: A53284
A;Accession: A
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C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 07-May-1999
C;Accession: B6:168
R;Kramer, K.J.; Felsted, R.L.; Law, J.H.
J. Blol. Chem. 248, 3021-3028, 1973
J. Blol. Chem. 248, N321-3028, 1973
A;Title: Cocconase. V. Structural studies on an insect serine protease.
A;Reference number: A6:1168; MUID:73166540; PMID:4735570
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A;Residues: 1-5 <OHT>
A;Cross-references: UNIPROT:P35905
C;Keywords: amidated carboxyl end; D-amino acid; neuropeptide
P;2/Modified site: D-agparagine (Asn) #status experimental
F;5/Modified site: amidated carboxyl end (Val) #status experimental
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A,Residues: 1-5 «KRA»
C;Keywords: 1-7 hydrolase; serine proteinase; zymogen
F;1-5/Product: cocoonase (fragment) #status experimental «MAT»
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Best Local Similarity 100...
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RESULT 15
A44955
alkanal monooxygenase (FMN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment C;Species: Vibrio harveyi
C;Species: Vibrio harveyi
C;Species: Vibrio harveyi
C;Date: 03.-Unn-1993 #sequence_revision 03.-Unn-1993 #text_change 26-May-2000
C;Accession: A44955
B;Aquatte., O.; Tu, S.C.
F;Aquatte., O.;Aquatte., O.;Aquatte
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A;Molecule type: mRNA
A;Residues: 1-4 «FEE»
A;Cross-references: UNIPROT:QBBIV7
A;Experimental source: newborn thymus, strain BALB/c
C;Keywords: T-cell receptor
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|:
3 GI 4
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Search completed: March 23, 2005, 14:51:54 Job time: 24.5 secs

3 GL 4 |: 2 GI 3

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Query Match 32.0%; Score 8; DB 2; Length 5; Best Local Similarity 50.0%; Pred. No. 2.8e+05; Matches 1; Conservative 1; Mismatches 0; Indels

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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March 23, 2005, 14:21:29 ; Search time 112.5 Seconds (without alignments) 22.759 Million cell updates/sec - protein search, using sw model OM protein Run on:

25 1 fvglm 5 Perfect score: Sequence:

Title:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

1612378 segs, 512079187 residues Searched:

. 23 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt\_03:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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21-JUL-1986 (Rel. 01, Created) 21-JUL-1986 (Rel. 01, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) Rosinophilotactic peptides. Homo sapiens (Human).

4 AA

STANDARD;

EOSI HUMAN P02731;

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RESULT 2 EOSI\_HUMAN

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P80628 zea mays (m					P67857 carcinus ma P67858 limulus pol	P67859 periplaneta P24272 vibrio fisc	
5 1 UC22 MAIZE	4 1 DCMS_PSECH	5 1 BION CITER 5 1 BION CITER	5 2 Q99007 5 2 P83073	4 1 YLM1 YEAST 4 2 Q08433	5 1 PRCT_CARMA 5 1 PRCT_LIMPO	S 1 PRCT_PERAM 3 1 LUXE_VIBFI	
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MEDLINE=99163340; PubMed=9504812;
Dunn M.J., Corbett J.M., Wheeler C.H.;
HSC-2DPAGE and the two-dimensional gel electrophoresis database of dog heart proteins.";
Electrophoresis 18:2795-2802(1997).
                                                                                                                                                                                                                                                 Canis familiaris (Dog).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Carnivora, Fissipedia, Canidae, Canis.
                                                                                       01-07T-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
25-0CT-2004 (Rel. 45, Last annotation update)
Triosephosphate isomerase (BC 5.3.1.1) (TIM) (Triose-phosphate
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                               5 AA.
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                                  STANDARD;
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TISSUE=Skin secretion;
Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
"Peptides from the skin glands of the Australian buzzing tree frog Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                             Litoria rubella (Desert tree frog).

Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia; Batrachia, Anura; Neobatrachia; Hyloidea, Hylidae;
Pelodryadinae, Litoria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Skin secretion, Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C., Powie J.H., Tyler M.J., Wallace J.C., Peptides from the skin glands of the Australian buzzing tree frog Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Litoria rubella (Desert tree frog).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Amphibia; Batrachia, Anura; Neobatrachia, Hyloidea; Hylidae; NCBI_TaxID=104895;
                                                                                                                                                                                                                                                                                                                                                                                                             Aust. J. Chem. 52:639-645(1999).
-! SUBCELLULAR LOCATION: Secreted.
-! TISSUE SPECIFICITY: Skin.
Amidation; Amphibian defense peptide; Direct protein sequencing.
MOD RES
SEQUENCE 5 AA; 630 MW; 668761F2C9A00000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aust. J. Chem. 52:639-645(1999).
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-1- SUBCELLUIAR LOCATION: Secreted.
-1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
-1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
Amphibian defense peptide; Direct protein sequencing.
SROIENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
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100.0%; Pred. No. 1.6e+06;
tive 0; Mismatches 0; Inde
                            28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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AC P82073;
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ID UF01_MOUSE
AC P38639;
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                                                                                                                                                                                                                                  Proc. Natl. Acad. Sci. U.S.A. 72:4123-4127(1975).

-I MISCELLANBOUS: These peptides are released from mast cells in lung (and other tissues) during hypersensitivity reactions (anaphylaxis). Their activities, preferentially affecting estinophils, include chemotaxis, chemotactic deactivation, release GO; GO:0006935; P:chemotaxis, IDA.

GO; GO:0006935; P:chemotaxis, IDA.

GO; GO:0006955; P:immune response; IDA.

Direct protein sequencing.
                                                                                                                                                                                                              of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                  Goetzi E.J., Austen K.F.; "Purification and synthesis of eosinophilotactic tetrapeptides of human lung tissue: identification as eosinophil chemotactic factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
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MEDLINE-99121193; PubMed-9461295;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carcinustatin 14. Carcinustatin update)
Carcinustatin 14. Carcinus maenas (Common shore crab) (Green crab).
Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
Pubrachyura; Portunoidea; Portunidae; Carcinus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40.0%; Score 10; DB 1; Length 4; 100.0%; Pred. No. 1.6e+06; Live 0; Mismatches 0; Indels
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4 AA; 390 MW; 6B05B862A000000 CRC64;
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100.0%; Pred. No. 1.6e+06;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
05-UUL-2004 (Rel. 44, Last annotation update)
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                                                                                                                MEDLINE=76078412; PubMed=1060093;
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P81817;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 4
E103_LITRU
ID _E103_LITRU
AC P82099;
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                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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AL14 CARMA
AL14 CARMA
AC P81817;
DT 30-MAY.
DT 30-MAY.
DT 05-UUL.
OC EUMRAIA
OC EURARY
OC EURARY
OC EURARY
OC FURBIL
OC EURARY
CO FURBIL
OC FURBIL
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Gaps

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Indels

Matches

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Gaps

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Best Loc Matches

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Wabhitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.; "Peptides from the skin glands of the Australian buzzing tree frog Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                            Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
Pelodryadinae; Litoria.
NCBI_TaxID=104895;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aust. J. Chem. 52:639-645(1999).
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUB SPECIFICITY: Skin.
-Amidation; Amphibian defense peptide; Direct protein sequencing.
MOD RES 5 5 Histidine amide.
SEQUENCE 5 AA; 616 MW; 61F2D1A059A00000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   36.0%; Score 9; DB 1; Length 5; 50.0%; Pred. No. 1.6e+06; tive 1; Mismatches 0; Indel8
                                                                                                                                          28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Blectrin 4.
                                                                                                      S AA.
                                                                                                                                                                                                                             toria rubella (Desert tree frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=90055678; PubMed=2818128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-FEB-1991 (Rel. 17, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       36.0
Best Local Similarity 50.0
Matches 1; Conservative
                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Skin secretion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=290
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  LM 3
                                                                              EI04_LITRU
ID EI04_LITRU
AC P82100;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          rubella.";
                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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                                                                                                                                                                                                                      MEDLINE=9500907; PubMed=7523108; Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.; Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.; Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis."; Electrophoresis 15:735-745(1994).

-- NISCELIAMSOUS: On the 20-gel the determined pl of this unknown protein is: 6.6, its MW is: 19 kDa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zatylny C., Gagnon J., Boucaud-Camou E., Henry J.; "ILME: a waterborne pheromonal peptide released by the eggs of Sepia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea; Decapodiformes; Sepioidea; Sepidae; Sepia.
NCBI_TaxID=6610;
01-OCT-1994 (Rel. 30, Created)
1-OCT-1994 (Rel. 30, Last sequence update)
05-UTL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
                                                                                                                                                                                                                                                                                                                                                                                                                                                      40.0%; Score 10; DB 1; Length 5; 33.3%; Pred. No. 1.6e+06; Ative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct protein sequencing; Pheromone.
SEQUENCE 4 AA; 505 MW; 6B1697203000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE 5 AA; 717 MW; 7364087043100000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iochem. Biophys. Res. Commun. 275:217-222 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-WAR-2004 (Rel. 43, Created)
29-WAR-2004 (Rel. 43, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       36.0%; Score 9; DB 1
100.0%; Pred. No. 1.6
ative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pheromone peptide ILME.
Sepia officinalis (Common cuttlefish)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 36.0
Best Local Similarity 100.
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                    SEQUENCE.
TISSUE=Fibroblast;
                                                                                                                                          NCBI_TaxID=10090;
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1 WIG 3
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TISSUE=Egg;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ILME SEPOF
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Gaps

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dioxide.
-!- CATALYTIC ACTIVITY: CO + H(2)O + A = CO(2) + AH(2).
-!- COPACTOR: Binds 1 copper(1) ion, 1 molybdenum(VI) ion and 1
molybdopterin cytosine dinucleotide (MCD) per subunit.
-!- SUBUNIT: Heterotrimer consisting of a large, a medium and a small
                                                                                                                                                                                                                                                                        Kraut M., Hugendieck I., Herwig S., Meyer O.;
"Homology and distribution of CO dehydrogenase structural genes in
                                                                                                                                                                                                                                                                                                          carboxydotrophic bacteria.";
Arch. Microbiol. 152:335-341(1989).
-!- FUNCTION: Catalyzes the oxidation of carbon monoxide to
                                                    01-FEB-1991 (Rel. 17, Last sequence update)
5-UUL-2004 (Rel. 44, Last annotation update)
Carbon monoxide dehydrogenase large chain (EC 1.2.99.2) (CO dehydrogenase subunit L) (CO-DH L) (Fragment).
                                                                                                                                             Pseudomonas carboxydohydrogena.
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28.0%; Score 7; DB 1; Length 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PIR; PL0140, PL0140.
Direct protein sequencing; Molybdenum; Oxidoreductase.
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4 AA.
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FWRF MACNI
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                             Gaps
                                                                                                                                                                                                                                                                                                                                                                   SPECIES=H.trivolvis; TISSUE=Kidney,
MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
"FMRFamide-related peptides from the kidney of the snail, Helisoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE, AND MASS SPECTROMETRY.
MEDLINE=90319122; PubMed=1973541;
Grimmelikhuijzen C.U.P., Rinehart K.L. Jr., Jacob E., Graff D.,
Reinscheid R.K., Nothacker H.-P., Staley A.L.;
"Isolation of L-3-phenyllactyl-Leu-Arg-Asn-NH2 (Antho-RNamide), a sea anemone neuropeptide containing an unusual amino-terminal blocking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                 SPECIES-H.medicinalis;
MEDLINE-92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
"Identification of Remide neuropeptides in the medicinal leech.";
Peptides 12:897-908(1991).
                                                                                                                                                                                                              Helisoma trivolvis (Snail).
Eukaryota, Metazoa, Annelida, Clitellata, Hirudinida, Hirudinea,
Arhynchobdellida, Hirudiniformes, Hirudinidae, Hirudo.
NCBI_TaxID=6421, 27815;
                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                  trivolvis.";
Peptides 15:31-36(1994).
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Anthopleura elegantissima (Sea anemone).
Eukaryota; Metazoa; Cnidaria; Anthozoa; Zoantharia; Actiniaria;
Nynantheae; Actiniidae; Anthopleura.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .;
0
                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 7; DB 1; Length 4;
Pred. No. 1.6e+06;
1; Mismatches 0; Indels
. No. 1.6e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amidarion; Direct protein sequencing; Neuropeptide.
MOD RES 4 4 Phenylalanine amide.
SEQUENCE 4 AA; 582 MW; 69D40729A0000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  group.";
Proc. Natl. Acad. Sci. U.S.A. 87:5410-5414(1990).
                                                                                                                                                 01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Antho-RNamide.
                      1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 AA.
                                                                                                                                                                                                 rudo medicinalis (Medicinal leech), and
          50.0%; Pred.
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     Best Local Similarity 50.0
Matches 1; Conservative
                                                                                                                               STANDARD;
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les 1; Conserv
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                                           2 VG 3
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                                                      1 MG ..
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FLEN ANTEL

AC D58707;
DT 28-FEB-2003
DT 28-FEB-2003
DT 28-FCB-2003
DT 05-JUL-2004
OS Anthopleura
OC Bukaryota; M.
Nynantheae;
OC Nynantheae;
OX NYBLINE-9031
RP SEQUENCE, AN REDLINE-9031
RA REINSCHEIKHUIR
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RT SOLALION O
RT Group.";
RI Group.";
RI Proc. Natl.
                                                                                                                              HIRME
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                                                                                                                                     P42561;
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                                                                                                                                                                                                                                                                                                                            Gaps
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Neuron specific.
-!- MASS SPECIMETRY: MW=549.3; METHOD=FAB; RANGE=1-4; NOTE=Ref.1.
PIR; A35779; A35779.
Amidation; Direct protein sequencing; Neuropeptide.
MOD_RES 1 3-phenyllactic acid.
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-!- FUNCTION: Myoactive; cardioexcitatory substance. Pharmacological activities include augmentation, induction, and regularization of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SPECIES=H.trivolvis, TISSUE-Kidney,
MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
"FMRFamide-related peptides from the kidney of the snail, Helisoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES=N.virens;
MEDLINE=90259866; PubMed=2342992; DOI=10.1016/0196-9781(90)90113-J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPECIES=H.medicinalis;
MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
"Identification of RPamide neuropeptides in the medicinal leech.";
Peptides 12:897-908(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 01, Last sequence update)
FWRRamide (Peak C) (Cardiooxcitatory neuropeptide).
Macrocallista nimbosa (Sun-ray clam),
Nacrocallista nimbosa (Sun-ray clam),
Hirudo medicinalis (Wedicinal leech), and
Helisoma trivolvis (Snail).
Eukaryota Metacoa, Mollusca; Bivalvia; Heteroconchia; Veneroida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Krajniak K.G., Price D.A.; "Authentic FMRFamide is present in the polychaete Nereis virens."; Peptides 11:75-77(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE, AND SYNTHESIS.
SPECIES-W.nimbosa; TISSUE-Cerebral pedal, and Visceral ganglion;
MEDLINE=77215956; Pubmed=877582;
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                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                Length 4;
                                                                                                                                                                       4 4 AA; 549 MW; 64540729A0000000 CRC64;
                                                                                                                                                                                                                                                          Score 7; DB 1; Le
Pred. No. 1.6e+06;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Veneroidea; Veneridae; Macrocallista.
NCBI_TaxID=6594, 6353, 6421, 27815;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE, AND CHARACTERIZATION
                                                                                                                                                                                                                                                       28.0%;
                                                                                                                                                                                                                                                                                                           1; Conservative
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Best Local Similarity
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                                                                                                                                          MOD_RES
MOD_RES
SEQUENCE
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Int. J. Pept. Protein Res. 39:258-264(1992).

-1- FUNCTION: Neuroexcitatory peptide; increases the impulse frequency and produces a spike broadening of the identified heart excitatory neuron (PON); also enhances the amplitude and frequency of the heart beat. Has also an effect on several other muscles. PIR, A32480, A32480.

D-amino acid; Direct protein sequencing; Hormone.

MOD_RES. 2 D-phenylalanine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CRISTALLIZATION.
MEDLINE=93014529; PubMed=1399265;
IShida T., In Y., Doi M., Inoue M., Yasuda-Kamatani Y., Minakata H.,
INMADIA T., IN YOMOTO K.;
"Crystal Structure and molecular conformation of achatin-I (H-Gly-D-Phe-Ala-Asp-OH), an endogenous neuropeptide containing a D-amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Sigmurethra; Achatinoidea; Achatinidae; Achatina.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Ferussac; TISSUE=Heart atrium;
MEDLINE=91264856; PubMed=1675568;
Fujimoto K., Kubota I., Yasuda-Kamatani Y., Minakata H., Nomoto K., Yoshida M., Harada A., Munooka Y., Kobayashi M.;
"Purification of achatin-I from the atria of the African giant snail, Achatina fulica, and its possible function.";
Biochem. Biophys. Res. Commun. 177:847-853(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE, CHARACTERIZATION, AND SYNTHESIS.
STRAIN=Ferussac; TISSUE=Canglion;
MEDLINE=8923551; PubMed=2597281;
MEDLINE=8923551; PubMed=2597281;
Rematani Y., Minakata H., Kenny P.T.M., Iwashita T., Watanabe K.,
Funase K., Sun X.P., Yongsiri A., Kim K.H., Novales-Li P.,
Novales E.T., Kanapi C.G., Takeuchi H., Nomoto K.;
"Achatin-I, an endogenous neuroexcitatory tetrapeptide from Achatina fulica Ferussac containing a D-amino acid residue.";
Biochem. Biophys. Res. Commun. 160:1015-1020(1989):
"Growth-modulating serum tripeptide is glycyl-histidyl-lysine.";
Experientia 33:324-325(1977).
-!- MISCELLANBOUS: This serum tripeptide has been found to stimulate growth of some cell types and to inhibit other types in vitro.
GO; GO:0001558; P:regulation of cell growth; NAS.
Direct protein sequencing.
SEQUENCE 3 AA; 340 MW; 6331E81000000000 CRC64;
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                                                                                                                                                                                      DB 1; Length 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 AA; 408 MW; 6AADD9C81000000 CRC64;
                                                                                                                                                                                    24.0%; Score 6; DB 1; Let 100.0%; Pred. No. 1.6e+06; iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Achatina fulica (Giant African snail)
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Best Local Similarity
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ACH1_ACHFU
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MEDLINE=98100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;

A Henry J., Favrel P., Boucand-Camou E.;

Hisolation and identification of a novel Ala-Pro-Gly-Trp-amide-related peptide inhibiting the motility of the mature oviduct in the cuttlefish, Sepia officianalis.";

Toptide inhibiting the motility of the mature oviduct in the cuttlefish, Sepia officianalis.";

Peptides 18:1469-1474(1997).

-I- FUNCTION: Regulatory neuropeptide with myotropic activity trageting the distal oviduct. Inhibits the motility of the oviduct oby decreasing tonus, frequency and amplitude of contractions.

-I- SUBCELDULAR LOCATION: Secreted.

-I- MASS SPECTROMETRY: MW-259.9; METHOD=MALDI; RANGE=1-2; NOTE=Ref.1.

Amidation; Direct protein sequencing; Neuropeptide.

Thomas Amidation; Direct protein sequencing; Neuropeptide.

The MOD RES.

SEQÜENCE 2 AA; 261 MM; 737810000000000 CRC64;
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Decapodiformes; Sepioidea; Sepiidae; Sepia.
NCBI_TaxID=6610;
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
  -!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
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1.6e+06;
... 0; Indels
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                                                                                                                                                                                                               DB 1; Length 4;
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                                                                   PIR; A01426; ECNK.

PIR; A60418; A60418.

Anidation; Direct protein sequencing; Neuropeptide.

MOD RES.

SEQUENCE 4 AA; 600 MW; 69D40699A0000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAR-2004 (Rel. 43, Created)
29-MAR-2004 (Rel. 43, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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21-JUL-1986 (Rel. 01, Last sequence update)
25-JUL-2004 (Rel. 44, Last annotation update)
Growth-modulating peptide.
                                                                                                                                                                                                            ; Score 7; DB 1;
; Pred. No. 1.6e+
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sepia officinalis (Common cuttlefish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
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MEDLINE=77162369; PubMed=858356;
                                                                                                                                                                                                            Query Match 28.0%;
Best Local Similarity 50.0%;
Matches 1; Conservative
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21-JUL-1986 (
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P83570;
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GRWM_HUMAN
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Best Loc Matches

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Gaps

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Wed Mar 23 15:33:44 2005

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version	- 2005
SenCore	c) 1993
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OM protein - protein search, using sw model

March 23, 2005, 14:20:03; Search time 120.5 Seconds (without alignments) 16.048 Million cell updates/sec Run on:

SEQ2 25 1 fvglm 5 Title:

Perfect score: Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

2105692 seqs, 386760381 residues Searched:

45841 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

A Geneseq 16Deco4:\*

1: geneseqp1980s:\*

2: geneseqp190s:\*

3: geneseqp2001s:\*

4: geneseqp201s:\*

5: geneseqp201s:\*

6: geneseqp201ss:\*

7:: geneseqp2013s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:\*

### SUMMARIES

	Fluorinat	Fluorinat	Alpha-sub	Alpha-sub	Alpha-sub	Alpha-sub	COOH-term	Cholecyst	Cholecyst	Cholecyst	Cholecyst	Tetrapept	Substance	Neutrophi	Human tac	Mammalian	Human/rat	P antagon	C-termina		nykini	rachykini Octopus t	Tachykini Octopus t Human bet	Tachykini Octopus t Human bet Substance	Tachykini Octopus t Human bet Substance Tachykini
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Description	Aab82430	Aab82431	Aar33009	Aar33008	Aar33007	Aar33010	. Aaw80134	Aar54549	Aar54551	Aar54550	Aar54548	Aaw41687	Aaw99643	Aay50325	Aaw92660	Aab23028	Aab23025	Aay67576	Aab66674	Aab91428	֡	Aab70556	Aab70556 Aau10880	Aab70556 Aau10880 Abb10088	Aab70556 Aau10880 Abb10088 Aau77847
	AAB82430	AAB82431	AAR33009	AAR33008	AAR33007	AAR33010	AAW80134	AAR54549	AAR54551	AAR54550	AAR54548	AAW41687	AAW99643	AAY50325	AAW92660	AAB23028	AAB23025	AAY67576	AAB66674	AAB91428		AAB70556	AAB70556 AAU10880	AAB10880 AAU10880 ABB10088	AAB70556 AAU10880 ABB10088 AAU77847
a	AAB	AAB	AAR	AAR	AAR	AAR	AAW	AAR	AAR	AAR	AAR	AAM	AAM	AAY	AAW	AAB	AAB:	AAY(	AAB(	AAB!		AAB.	AAU:	AAU ABB	AAU ABB
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% Query Match	100.0	100.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0		80.0	80.0 80.0	80.0 80.0	0.0.0.0
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Adc64000 Tachykini Ad694203 High acti Ad692530 Substance Adn12180 Tachykini Adn95078 Mammalian Adr43774 Mammalian Adr43771 Human mag Aaw41684 Terrapept Aar27817 SEC bind1 Aab26299 Human alp Aab26299 Human alp Aab26299 Human alp Aab26299 Human alp Aab261795 Amyloid b Aab91821 Amyloid b	Aay2702 Auaigebic Aaw92702 Human tac Aag99346 Atypical
5 7 ADC64000 5 7 ADE94203 5 8 ADF92530 5 8 ADN12180 5 8 ADN43774 4 2 AAR3774 4 2 AAR3774 5 3 AAR26271 5 3 AAR26271 5 3 AAR3684 6 4 AAR91795 4 4 AAR911822 5 4 AAR911822 5 4 AAR911822 5 4 AAR911822 6 4 AAR911822	104
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### ALIGNMENTS

AAB82430 standard; peptide; 5 AA. AAB82430; RESULT 1

(first entry) 22-AUG-2001

Fluorinated neurokinin A antagonist intermediate.

Neurokinin A, fluorinated peptide; antagonist; immunosuppressive; antiarthritic; antiasthmatic; antiinflammatory; antiarthritic; analgesic; antitumour; anticonvulsant; nootropic; antipsychotic; antimigraine;

Synthetic.

asthma; therapy.

Location/Qualifiers 1. .2 /note= "the peptide bond is replaced by CH2-N(CH2CF3)" /note= "C-terminal amide" note= "Boc-Phe" Key Modified-site Modified-site Modified-site US6218364-B1 17-APR-2001. 

96US-00638407 26-APR-1996; 20-JUN-1988; 24-FEB-1989;

88US-00208926. 89US-00315202. 89US-00356031. 91US-00068593. 93US-00033987. 94US-00282341. (HARB/) HARBESON S L. (MCCA/) MCCARTHY J R. 23-MAY-1989; 17-APR-1991; 31-MAY-1991; 19-MAR-1993; 29-JUL-1994;

Ë Harbeson SL, Mccarthy

WPI; 2001-366135/38.

New peptide derivative useful as immunosuppressants and in treating subjects with various conditions, e.g. asthma.

The present sequence is that of a synthetic peptide produced as an intermediate in the chemical synthesis of a novel fluorinated neurokinin h antagonist (AABS2428). Fluorinated neurokinin h antagonists of the invention are based on the amino acid sequence of neurokinin h, but include at least 1 modified peptide bond having a reduced amide and a fluorinated alkyl attached to the N atom of the modified peptide bond. The neurokinin h antagonists are useful as immunosuppressives and in treating subjects, including humans, with various conditions, e.g. asthma (claimed), arthritis, urinary incontinence, pain, inflammation, tumour growth, gastrointestinal hypermotility, Huntington's disease, psychosis, neuralgia, urticaria, carcinoid syndrome symptoms, influenza, common cold, and headache including migraine

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Gaps ö

100.0%; Score 25; DB 4; Length 5; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels

Conservative

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1 FVGLM 5 1 FVGLM

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Ouery Match Best Local Similarity 5; Conserve

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Gaps

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100.0%; Score 25; DB 4; I 100.0%; Pred. No. 1.8e+06; iive 0; Mismatches 0;

Sequence 5 AA;

Example 3; Col 20; 25pp; English.

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invention are based on the amino acid sequence of neurokinin h, but include at least 1 modified peptide bond having a reduced amide and a fluorinated alkyl attached to the N atom of the modified peptide bond having a reduced amide and a treating anticut a antagonists are useful as immunosuppressives and in (claimed), arthritis, urinary incontinence, pain, inflammation, e.g. asthma growth, gastrointestinal hypermotility, Huntington's disease, psychosis, neuralgia, urticaria, carcinoid syndrome symptoms, influenza, common cold, and headache including migraine
                                    The present sequence is that of a protected peptide produced as an intermediate in the chemical synthesis of a novel fluorinated neurokinin a antagonist (AAB82428). Fluorinated neurokinin A antagonists of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neurokinin A, fluorinated peptide, antagonist, immunosuppressive; antiarthritic; antiasthmatic; antiinflammatory; antiarthritic; analgesic; antitumour; anticonvulsant; nootropic; antipsychotic; antimigraine;

    .2
    /note= "the peptide bond is replaced by CH2-N(CH2CF3)"

                                                                                                                                                                                                                                                                                                                                                                                                                                             Fluorinated neurokinin A antagonist intermediate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
          Example 3; Col 20; 25pp; English.
                                                                                                                                                                                                                                                                                                                                                                 AAB82431 standard; peptide; 5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            asthma; therapy
                                                                                                                                                                                                       Sequence 5 AA;
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Modified-site
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Best Local Si
Matches 5;
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The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify
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                                                                                                                                                                                                                                                                                                                                                                                  CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
improved bioavailability.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "alpha-Me-Leu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                              AAR33009 standard; peptide; 5 AA.
                                                                                                                                                                                                                                                                                                           Alpha-substituted short peptide.
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                                                                                                                                                                                                               (revised)
(first entry)
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Modified-site
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RESULT 3
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"C-terminal amide"

91US-00686593. 91US-00709092. 93US-00033987. 94US-00282341.

17-APR-1991; 31-MAY-1991; 29-JUL-1994;

19-MAR-1993

23-MAY-1989

Harbeson SL, Mccarthy JR;

WPI; 2001-366135/38.

(HARB/) HARBESON S L. (MCCA/) MCCARTHY J R.

New peptide derivative useful as immunosuppressants and in treating subjects with various conditions, e.g. asthma.

obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, addictive drug withdrawal symptoms, hypertension, heart failure, cognition or memory disorders, spasticity, depression, diabetes, cancer, asthma, bladder dysfunction, psychhosis and arthritis; and as contraceptives. (Updated on 25-MAR-2003 to correct PM field.) (Updated on 25-MAR-2003 to correct PM field.) (indated on 25-MAR-2003 to correct PM field.)

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Gaps ;

1; Indels

Score 20; DB 2; Length 5; Pred. No. 1.8e+06; 0; Mismatches 1; Indels

80.0%;

4; Conservative

1 FVGLM 5 FFGLM 5

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Query Match Best Local Similarity Matches 4; Conserv

Sequence 5 AA;

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the bioavailability, stability or absorbability of the peptide and hence may improve the activity of the peptide as a drug. Depending on the nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic peptide, etc.), the modified peptides are variously useful for treating obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, addictive drug withdrawal symptoms, hypertension, heart failure, cognition or memory disorders, spasitity, depression, diabetes, cancer, asthma, bladder dysfunction, psychosis and arthritis; and as conrecoprises (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.)
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                                                                                                                                                                               Gaps
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                                                                                                                                                       Score 20; DB 2; Length 5; Pred. No. 1.8e+06; 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                             AAR33008 standard; peptide; 5 AA.
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                                                                                                                                                        80.0%;
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                                                                                                                                                                              4; Conservative
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Best Local Similarity
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02-APR-1993
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The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify the bioavailability, stability or absorbability of the peptide and hence may improve the activity of the peptide as a drug. Depending on the nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic peptide, etc.), the modified peptides are variously useful for treating obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, addictive drug withdrawal symptoms, hypertension, heart failure, cognition or memory disorders, spasticity, depression, diabbetes, cancer, asthma, bladder dysfunction, psychosis and arthritis; and as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.
                                                                                                                                                         CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia; improved bioavailability.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Howson W;
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                                                                                                                                                                                                                                                                          /note= "alpha-Me-Phe"
                                                                                                                                                                                                                                       Location/Qualifiers
               AAR33007 standard; peptide; 5 AA.
                                                                                                                             Alpha-substituted short peptide.
                                                                                                                                                                                                                                                                                                       /note= "Met-NH2'
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92US-00852086.
                                                                                                (first entry)
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                                                                              (revised)
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20-MAR-1992;
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02-APR-1993
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                                                                                                                                                                                                             Synthetic
                                                AAR33007;
AAR3300
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The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tri-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify the bicavailability, stability or absorbability of the peptide and hence may improve the activity of the peptide as a drug. Depending on the nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic peptide, etc.), the modified peptides are variously useful for treating

New alpha-substd. polypeptide are e.g. selective receptor ligands - for treating inflammation, pain, stroke, ulcers, hypertension, heart failure, depression, cancer, asthma, psychosis, arthritis, etc.

Claim 3; Page 41; 46pp; English.

Richardson RS, Howson W;

92WO-US003119.

15-APR-1992; 24-APR-1991; 20-MAR-1992;

12-NOV-1992

92US-00852086 91US-00690755

(WARN ) WARNER LAMBERT CO.

Horwell DC, Hughes J,

WPI; 1992-398522/48.

Gaps

; 0

80.0%; Score 20; DB 2; Length 5; 80.0%; Pred. No. 1.8e+06; ive 0; Mismatches 1; Indels

4; Conservative

1 FVGLM 5

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1 FFGLM

RESULT 7 AAW80134

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Gaps ; 0

Query Match Best Local Similarity Matches 4; Conserv

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The peptide is a specifically claimed example of a group of generically claimed mono-, di-, tetra- and penta-peptides which include a substituent on an alpha-C atom in the chain. Such substitution may modify the bioavailability, stability or absorbability of the peptide and hence mature of the parent peptide (hormone, endorphin, ccx, NK2, chemotractic peptide, etc.), the modified peptides are variously useful for treating opetide, etc.), the modified peptides are variously useful for treating addictive drug withdrawal symptoms, hypertension, heart failure, addictive drug withdrawal symptoms, hypertension, heart failure, cognition or memory disorders, spassicity, depression, diabetes, cancer, contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct PR field.)
contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct PR
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                                                                                                                                                                                                                                                                                                                                                                                                                    CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
improved bioavailability.
                                                                                             Query Match 80.0%; Score 20; DB 2; Length 5; Best Local Similarity 80.0%; Pred. No. 1.8e+06; Matches 4; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "alpha-Me-Met-NH2"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                        AAR33010 standard; peptide; 5 AA.
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92US-00852086
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(first entry)
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                                                                                                                                                             1 FVGLM 5
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                                                                  Sequence 5 AA;
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Modified-site
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02-APR-1993
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Human, neurokinin receptor; NK-2; neurokinin A neurotransmitter; abnormal smooth muscle cell contraction; asthma; PCR primer; gastrointestinal disorder; peptic ulcer; ulcerative colitis.

/note= "Phe, Tyr, Val or Ile"

Location/Qualifiers

Misc-difference 2

WO9216220-A1 01-OCT-1992.

Unidentified

COOH-terminal sequence of the tachykinin family.

(first entry)

17-DEC-1998

AAW80134;

AAW80134 standard; peptide; 5 AA.

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The present sequence represents the COOH-terminal sequence of the tachykinin family. The specification describes a human recombinant neurokinin (NK-2) receptor protein. The human NK-2 receptor gene was closed from human tracheal tissue from an individual with cystic fibrosis. The coding sequence is interrupted by four introns. The protein between neurokinin A neurotransmitter and its NK-2 receptor. The protein is thus useful for treating disorders associated with abnormal smooth muscle cell contraction, particularly asthma and gastrointestinal disorders such as peptic ulcers and ulcerative colitis
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80.0%; Pred. No. 1.8e+06;
Live 0; Mismatches 1; Indels
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Best Local Similarity
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Human recombinant neurokinin NK-2 receptor - antagonises interaction of neurokinin A and its receptor, useful for treating asthma and ulcerative

(CHIL-) CHILDRENS MEDICAL CENT.

Gerard NP, Gerard C;

WPI; 1992-348932/42.

92WO-US002017. 91US-00670066

13-MAR-1992;

15-MAR-1991;

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RESULT 8

Sequence 5 AA;

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gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
heart failure; cognition; memory enhancement; spasticity; depression;
diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
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80.0%; Pred. No. 1.8e+06;
ive 0; Mismatches 1;
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                                                                                                                             /note= "Amidated C-terminal"
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                                                                                   Location/Qualifiers
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                                                                                                                 /label= MeMet
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14-DEC-1994
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                                                          Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequences given in AARS1117-18 and AARS4530-51 are peptide analogues of cholecystokinin (CCK) which can be used to treat obesity, anxiety, of setzointestinal ulcers, pain, stroke, inflammation, hypertension, heart failure, cognition, memory enhancement, spasticity, depression, diabetes, cancers, aethma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                            Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety; gastrointestinal ulcers; pain; stroke; inflammation; hypertension; heart failure; cognition; memory enhancement; spasticity; depression; diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New cholecystokinin analogues - useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
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Pred. No. 1.8e+06;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Richardson RS
                                                                                                                                                                                                                                                                                         /note= "Amidated C-terminal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cholecystokinin analogue peptide #44.
                                                                                                  Cholecystokinin analogue peptide #42.
                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hugues J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR54551 standard; peptide; 5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3; Page 66; 73pp; English.
 AAR54549 standard; peptide; 5
                                                                                                                                                                                                                                                           'label= MePhe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80.0%;
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93US-00131693
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                                                        (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (WARN ) WARNER LAMBERT CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4; Conservative
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Best Local Similarity
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                                                                                                                                                                                                                                Key
Modified-site
                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                              14-OCT-1993;
                                                                                                                                                                                                                                                                                                                                                                                                         19-OCT-1992;
08-OCT-1993;
                                                                                                                                                                                                                                                                                                                     WO9409031-A1
                                                        25-MAR-2003
14-DEC-1994
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                                                                                                                                                                                                     Synthetic
                            AAR54549;
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XXEXBEXEXEXE

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The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues of cholecystokinin (CCK) which can be used to treat obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart failure, cognition, memory enhancement, spasticity, depression, diabetes, cancers, asthma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety; gastrointestinal ulcers; pain; stroke; inflammation; hypertonsion; heart failure; cognition; memory enhancement; spasticity; depression; diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
New cholecystokinin analogues – useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
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Wed Mar 23 15:33:42 2005

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety; gastrointestinal ulcers; pain; stroke; inflammation; hypertension; heart failure; cognition; memory enhancement; spasticity; depression; diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                        New cholecystokinin analogues - useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
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                                                                                                                                                                                                                                                                                                                                                                       80.0%; Score 20; DB 2; Length 5;
80.0%; Pred. No. 1.8e+06;
iive 0; Mismatches 1; Indels
                                                                                                                                               Richardson RS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "Amidated C-terminal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cholecystokinin analogue peptide #41.
                                                                                                                                           Howson W, Hugues J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAR54548 standard; peptide; 5 AA.
                                                                                                                                                                                                                          Claim 3; Page 66; 73pp; English.
                                                             93WO-US009809
                                                                                  92US-00963169.
93US-00131693.
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                                                                                                                   (WARN ) WARNER LAMBERT CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
                                                                                                                                                                  WPI; 1994-151243/18.
                                                                                                                                                                                                                                                                                                                                                                                                                    FVGLM 5
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                                                                                                                                                                                                                                                                                                                                              Sequence 5 AA;
            WO9409031-A1
                                                         14-OCT-1993;
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Modified-site
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                                   28-APR-1994
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14-DEC-1994
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08-OCT-1993;
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                                                                                                                                           The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues of cholecysteknin (CCK) which can be used to treat obseity, anxiety, gastrointestinal ulcers, pain, stroke, inflammetion, hypertension, heart failure, cognition, memory enhancement, spasticity, depression, diabetee, cancers, asthma, bladder dysfunction, psychosis, arthritis and in the treatment of substance withdrawl. (Updated on 25-MAR-2003 to correct PN field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye; keratitis; insulin like growth factor-1; IGF-1; eye drop.
                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ophthalmic drug composition containing tetra:peptide - is useful as corneal disorder remedy for corneal ulcer, corneal epithelial peeling,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This sequence is shown in the specification. The invention relates to ophthalmic drug composition which contains Phe-Gly-Leu-Met-NH2 or its medicinally acceptable salts as the active ingredient. It is used, together with insulin like growth factor-I (IGF-I), to treat corneal
                                                                            New cholecystokinin analogues - useful e.g. in treatment of pain, obesity, stroke, anxiety, and gastrointestinal ulcers.
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                                                                                                                                                                                                                                                                                    Length 5;
                              Richardson RS;
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80.0%; Pred. No. 1.8e+06;
iive 0; Mismatches 1;
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                           Howson W, Hugues J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nishida T, Nakamura M, Nakata K;
                                                                                                                                                                                                                                                                                                                                                                                                                      AAW41687 standard; peptide; 5 AA.
                                                                                                                   Claim 3; Page 66; 73pp; English.
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Best Local Similarity 80.0%;
(WARN ) WARNER LAMBERT CO.
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                                                    WPI; 1994-151243/18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dry eye, keratitis.
                                                                                                                                                                                                                                                                                                                                1 FVGLM 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tetrapeptide #4.
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                          Horwell DC,
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seq2.rag
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AAY50325 standard; peptide; 5 AA

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1 FVGLM FFGLM

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12-JAN-2000

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disorders such as corneal ulcer, corneal epithelial peeling, dry eye and keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The preferable form of the composition is eye drops
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New composition for supplying peptide to opioid receptor - comprises myogenic cells containing heterologous DNA encoding peptide and carrier.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Substance P; myoblast transfer therapy; pain relief; analgesic; behavioural abnormality; perceptive abnormality; opioid receptor; psychiatric condition; depression; chronic anxiety syndrome; paranola; alcoholism; drug addiction; chronic pain; neuron.
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0
                                                                                                                       Score 20; DB 2; Length 5;
Pred. No. 1.8e+06;
0; Mismatches 1; Indels
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                                                                                                                    80.0%;
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                                                                                                                                                          Conservative
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                                                                                                                    Query Match
Best Local Similarity
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                                                                                                                                                                                                                             FFGLM
                                                                                       Sequence 5 AA;
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Synthetic.
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Matches
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cell activating compositions which involves prepared a cell activating composition which involves prepared tiesue in buffer at about neutral or higher ph to produce a homogenate; (b) removing composition comprising (a) homogenizing pancreatic tissue in buffer at about neutral or higher ph to produce a homogenate; (b) removing particulates from the homogenate and selecting fractionally incubating the resulting composition the homogenate and selecting fractions that exhibit cell activation activity. The methods can be used for improving treatment or cutcome or reducing risk of treatment of e.g. cardiovascular disease, inflammatory disease, trauma, autoimmune diseases, arthritis, organ rejection, disabetes and disbetic complications, stroke, ischemia, cardiopathy, diabetes, venous insufficiency, unstable angina or trauma. Altheimer's disease, wycardial infarction, haemorrhagic shock, diabetic creptiopathy, diabetes, venous insufficiency, unstable angina or trauma. They can be used in the veterinary treatment of a non-human subject.

Cretinopathy, diabetes, venous insufficiency, unstable angina or trauma. They can be used in the detection of an elevated level of hydrogen peroxide can be used to detect an inflammatory condition. An elevated level of hydrogen peroxide dismutase (SOD) indicates leukocyte up regulation, e.g. indicative of the onset of an acute cardiovascular disorders, such cardiocative of an elevated level of hydrogen compications. An elevated level of hydrogen compications and a homogen condition e.g. indicative of a chronic or immune compromised condition e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and treatment of e.g. cardiovascular, inflammatory, autoimmune or
Alzheimer's disease, trauma, arthritis, organ rejection, diabetes, stroke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of cell activating compositions in developing products for diagnosis
                                                                                                                                                                      Cell activation; pancreas; treatment; cardiovascular disease; trauma; inflammatory disease; autoimmune disease; arthritis; diabetes; stroke; organ trejection; ischemia; Alzheimer's disease; myocardial infarction; haemorrhagic shock; diabetic retinopathy; venous insufficiency; angina; trauma; protease inhibitor; hypertension; sepsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention describes a novel method for the use and preparation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kistler E;
                                                                                                                               Neutrophil-activating pancreatic derived peptide 125.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hugli TE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stoughton RB, Schmid-Schonbein GW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 9; Page 184; 184pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (REGC ) UNIV CALIFORNIA. (SCRI ) SCRIPPS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 method of the invention
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                                                                                                                                                                                                                                                                                                            Unidentified
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Gaps

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1; Indels Length 5;

1.8e+06;

80.0%; Score 20; DB 2; 80.0%; Pred. No. 1.8e+06 iive 0; Mismatches

Conservative

4.

Matchee

Best Local Similarity

Query Match

claimed substance P analogue

Sequence 5 AA;

seq2.rag

; 0

Gaps

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This invention describes a method for screening compounds for inhibiting a neurotoxin. The method involves incubating tachykinin agonists with neuronal calls and a beta-amyloid peptide neurotoxin. The methods can be used for identifying compounds for treating diseases characterised by an Down's syndrome, and the syndromes of hereditary cerebral haemorrhage with amyloidosis and non-inherited congophilic angiopathy with cerebral haemorrhage. AAW92655 W92731 are tachykinin agonists derived from human field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tachykinin agonist; beta-amyloid; inhibition; neurotoxin; treatment; Alzheimer's disease; Down's syndrome; amyloidosis; human; hereditary cerebral haemorrhage; non-inherited congophilic angiopathy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Screening for neurotoxin inhibitors - by testing compounds for their effect on beta-amyloid peptide neurotoxic effect on neuronal cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human tachykinin agonist beta-amyloid peptide fragment #6.
                                                                                                                                                                                                                                                          80.0%; Score 20; DB 2; Length 5;
80.0%; Pred. No. 1.8e+06;
iive 0; Mismatches 1; Indels
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Wed Mar 23 15:33:42 2005
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(first entry)
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Best Local Similarity 80.0
Matches 4; Conservative
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30-APR-1999
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Best Local Similarity 80.0%;
Matches 4; Conservative (

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1 FFGLM 5

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Search completed: March 23, 2005, 14:46:01 Job time : 121.5 secs

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SEQ2 25 1 fvglm 5 Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

1407402 segs, 331100923 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 5

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Published\_Applications\_AA:\* Database :

| Cgn2\_6/ptodata/1/pubpaa/US07\_PUBCCMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US06\_PUBCMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.ppp:\*
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| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US108\_PUBCOMB.ppp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

	Description	Sequence 1, Appli	Sequence 4, Appli	Sequence 4, Appli	Sequence 1, Appli	Sequence 4, Appli	Sequence 3, Appli	Sequence 3, Appli	Sequence 4, Appli	Sequence 1, Appli	Sequence 4, Appli	Sequence 15, Appl	Sequence 32, Appl	Sequence 16, Appl
	QI.	US-09-265-690C-1	US-09-265-690C-4	US-10-230-133-4	US-10-053-669-1	US-10-053-669-4	US-10-134-187-3	US-10-688-741-3	US-10-695-536-4	US-10-805-881-1	US-10-805-881-4	US-10-497-628-15	US-10-168-789A-32	US-10-497-628-16
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### ALIGNMENTS

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S-Cy-Lag-Doyner, Application US/09265690C
Publication No. US20010051345A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Macrite OF INVENTION: for Disease Diagnosis
TITLE OF INVENTION: for Disease Diagnosis
CURRENT APPLICATION NUMBER: US/09/265,690C
CURRENT FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGHI: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                ) NAME/KEY: MOD RES

) LOCATION: (5)...(5)

) OTHER INFORMATION: AMIDATION

US-09-265-690C-1
                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
US-09-265-690C-1
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Score 20; DB 9; Length 5; Pred. No. 1.3e+06; 0; Mismatches 1; Indels Query Match
Best Local Similarity 80.0%;
Matches 4; Conservative FVGLM 5 à 셤

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RESULT 2 US-09-265-690C-4 Sequence 4, Application US/09265690C ; Publication No. US20010051345A1

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APPLICANT: Wells, lbert
TITLE OF INVENTION: for Disease Diagnosis
FILE SPENCENT: Wells, lbert
TITLE OF INVENTION: for Disease Diagnosis
FILE REFERENCE: N1427-005
CURRENT APPLICATION NUMBER: US/10/053,669
CURRENT FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: 09/265,690
PRIOR RILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PATENTIN VARIEND AND APPLICATION OF SEQ ID NOS: 4
SOFTWARE: PATENTIN VARIEND AND APPLICATION OF SEQ ID NOS: 4
SOFTWARE: PATENTIN VARIEND AND APPLICATION OF SEQ ID NOS: 4
SOFTWARE: PATENTIN VARIEND AND APPLICATION OF SEQ ID NOS: 4
SEQ ID NO 1
LENGTH: 5
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TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mac
TITLE OF INVENTION: for Disease Diagnosis
FILE REFERENCE: N1427-005
CURRENT APPLICATION NUMBER: US/10/053,669
CURRENT FILING DATE: 2002-01-24
PRIOR PILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 4
SEQ ID NO 4
LENGTH: 5
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80.0%; Pred. No. 1.3e+06;
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) OTHER INFORMATION: "X" may be either Phe or Val.

US-10-053-669-4
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Publication No. US20030077658A1
GENERAL INFORMATION:
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Publication No. US20030202981A1
GENERAL INFORMATION:
APPLICANT: Kream, Richard M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: MOD RES
LOCATION: (5) ... (5)
OTHER INFORMATION: AMIDATION
US-10-053-669-1
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LOCATION: (5)...(5)
OTHER INFORWATION: AMIDATION
NAME/KEY: VARIANT
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Best Local Similarity 80.00,
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ORGANISM: Homo sapiens
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 4; Conserv
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION: for Disease Diagnosis
FILE REPERENCE: 1477001
CURRENT APPLICATION NUMBER: US/09/265,690C
CURRENT PILING DATE: 1399-03-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
LENGIN OF ALTERNATE STATEMENT OF SEQ ID NOS: 4
SEQ ID NO 4
LENGIN OF ALTERNATE STATEMENT OF SEQ ID NOS: 4
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SEQ ID NO 4
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SEQ ID NO 5
TYPE.
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CURRENT APPLICATION NUMBER: US/10/230,133

PRIOR APPLICATION NUMBER: 09/635,266

PRIOR APPLICATION NUMBER: 09/635,266

PRIOR FILING DATE: 2000-08-09

NUMBER OF SEQ ID NOS: 4

SOFTWARE: Patentin version 3.0
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80.0%; Score 20; DB 9; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT

GRGANISM: Homo sapiens

GRGANISM: Homo sapiens

FRATURE:

NAME/KEY: MOD_RES

LOCATION: (5)...(5)

GOTHER INFORMATION: AMIDATION

NAME/KEY: VARIANT

LOCATION: (2)...(2)

GOTHER INFORMATION: "X" may be either Phe or Val.

US-09-265-690C-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (2)..(2)
; OTHER INFORMATION: "X" may be either F or V. US-10-230-133-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 4, Application US/10230133
; Publication No. US2030040625A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
US-10-053-669-1
Sequence 1, Application US/10053669
; Publication No. US20030077658A1
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LOCATION: (5)..(5)
OTHER INFORMATION: AMIDATION
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Best Local Similarity 80.0
Matches 4; Conservative
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ORGANISM: Homo sapiens
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LENGTH: 5
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APPLICANT: Wells, Ibert C.

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
TITLE OF INVENTION: Magnesium for Disease Diagnosis
FILE REPERENCE: 800812-0005
CURRENT APPLICATION NUMBER: US/10/805,881
CURRENT FILING DATE: 2004-03-22
PRIOR APPLICATION NUMBER: US 10/695,536
PRIOR FILING DATE: 2002-01-24
PRIOR FILING DATE: 2003-10-28
RIOR FILING DATE: 2003-10-28
RIOR FILING DATE: 2003-10-28
RIOR FILING DATE: 2003-10-28
RIOR FILING DATE: 2003-10-28
SEQ ID NOS: 4
SOFTWARE: PATENTIN VETSION 3.2
SEQ ID NO 1
LENGTH: 5
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Publication No. US20040171093A1
GENERAL INFORMATION:
APPLICANT: Wells, Ibert C.
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound FILE REPERBNCE: 800812-0005
CURRENT APPLICATION NUMBER: US/10/805,881
CURRENT APPLICATION NUMBER: US/10/805,881
PRIOR APPLICATION NUMBER: US 10/053,669
PRIOR APPLICATION NUMBER: US 10/053,669
PRIOR PILING DATE: 2002-01-24
PRIOR PILING DATE: 2003-01-24
PRIOR PILING DATE: 2003-01-28
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 20; DB 16; Length S;
Pred. No. 1.30+06;
0; Mismatches 1; Indels
                                                                                                                                           LOCATION: (2). (2) OTHER INFORMATION: X can be either F or V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/10805881
Publication No. US20040171093A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 80.0%;
Matches 4; Conserved 80.0%;
                                                                                                                                                                                                                         FEATURE:

NAME/KEY: MOD RES

LOCATION: (5)...(5)

OTHER INFORMATION: AMIDATION
US-10-695-536-4
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LOCATION: (5)...(5)
CTHER INFORMATION: AMIDATION
US-10-805-881.1
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                 ORGANISM: Homo sapiens
                                                                 FEATURE:
NAME/KEY: MISC_FEATURE
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 4; Conserv
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US-10-805-881-1
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Sequence 4, Application US/1069536;
Sequence 6, Application No. US20040110692A1;
GENERAL INFORMATION:
APPLICANT:
MAPLICANT:
MAIS, IDEAT Clifton
TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents;
TITLE OF INVENTION: Antagonists of Treatment of Abnormal Physiological States;
TITLE OF INVENTION: And Methods for Treatment of Abnormal Physiological States;
FILE REPRENCE: 800812-0008
CURRENT APPLICATION NUMBER: US 10/230,133
PRIOR APPLICATION NUMBER: US 09/635,266
PRIOR PILING DATE: 2000-08-09
PRIOR PILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.2
LENGTH:
LENG
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Sequence 3, Application US/10688741

Sequence 3, Application US/10688741

Sequence 3, Application US/10688741

Sequence 3, Application US/10688741

Sequence 3, Application US/1068361

GENERAL INFORMATION:

APPLICANT: Kream, Richard M.

APPLICANT: Kream, Richard M.

APPLICANT: Kream, Richard M.

TITLE OF INVENTION: Method Of Inhibiting Opioid Tolerance Development With Chimeric F.

TITLE OF INVENTION: Analgesics

TITLE OF INVENTION Analgesics

TITLE OF INVENTION NUMBER: US/10/688,741

CURRENT APPLICATION NUMBER: US/10/688,741

CURRENT APPLICATION NUMBER: Sequence Development With Chimeric F.

SUBJECT OF TOWN OF TOW
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APPLICANT: Kream, Richard M.
APPLICANT: Kream, Richard M.
TITLE OF INVENTION: Chimeric Hybrid Analgesics
FILE REFERENCE: Kream
CURRENT APPLICATION NUMBER: US/10/134,187
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 3
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80.0%;
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Best Local Similarity 80.0°
--- 4; Conservative
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Best Local Similarity
Matches 4; Conserv
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; TYPE: PRT
; ORGANISM: mammalian
US-10-688-741-3
                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: PRT
; ORGANISM: mammalian
US-10-134-187-3
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Sequence 16, Application US/10497628
; Publication No. US20050009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Makoto Inui
; APPLICANT: Makoto Inui
; APPLICANT: Makoto Inui
; APPLICANT: Makoto Inui
; TILE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; TILE REPERRICE: 04355/HG
; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR PELLING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE PATENTION OF 2.1
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Publication No. US20020076412A1
GENERAL INFORMATION:
APPLICANT: Steinman, Lawrence
APPLICANT: Zamvil, Scott
TITLE OF INVENTION: METHODS FOR MODULATING THE IMMUNE SYSTEM
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                     Length 5;
                                                                                                                                                                                                                                                                                                                                                                             1; Indels
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                                                                                                                                                                                                                                                                                                                          68.0%; Score 17; DB 14;
60.0%; Pred. No. 1.3e+06;
iive 1; Mismatches 1;
                                                                                                                                                                 OTHER INFORMATION: Artificial Polypeptide
                                                                                                                                                                                                             ; NAME/KEY: PEPTIDE
; LOCATION: (02)...(02)
; OTHER INFORMATION: Xaa is any amino acid
US-10-168-789A-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE PORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Best Local Similarity 60.0
Matches 3; Conservative
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Best Local Similarity 60.0
Matches 3; Conservative
                                       NUMBER OF SEQ ID NOS: 64
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STATE: Washington
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1 YFGLM 5
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LENGTH: 5
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US-10-168-789A-32
Sequence 32, Application US/10168789A
Fublication No. US2030148943A1
GENERAL INFORMATION:
APPLICANT: ITCH, Yasuaki
APPLICANT: ITCH, Yasuaki
APPLICANT: INATOMI, No. US2030148943A1uhiro
APPLICANT: INATOMI, No. US2030148943A1el Tachykinin-like Polypeptides and Use Therec
TILE OF INVENTION: NO. US2030148943A1el Tachykinin-like Polypeptides and Use Therec
TILE OF INTURION: 2680USOP
CURRENT APPLICATION NUMBER: US/10/168,789A
CURRENT APPLICATION NUMBER: PCT/JP00/09083
FRIOR FILING DATE: 1200-12-21
FRIOR FILING DATE: 1999-12-21
FRIOR FILING DATE: 1999-12-21
FRIOR FILING DATE: 1999-03-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15, Application US/10497628

Publication NO. US20050009752A1

SEQUENCE INFORMATION:

APPLICANT: Terro Nishida

APPLICANT: Makero Inui

APPLICANT: Makero Inui

APPLICANT: Makero Inui

TITLE OF INVENTION: NOVEL PETIDE AND PHARMACEUTICAL USE OF THE SAME

TITLE OF INVENTION: NOVEL PETIDE AND PHARMACEUTICAL USE OF THE SAME

CURRENT APPLICATION NUMBER: US/10/497, 628

CURRENT FILING DATE: 2004-06-03

PRIOR PELLING DATE: 2001-12-01

NUMBER OF SEQ ID NOS: 17

SOFTWARE PAREIN PARENT NOVEL 2.1
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Pred. No. 1.3e+06;
0; Mismatches 1; Indels
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                                                                                            FEATURE:

NAME/KRY: MISC_FEATURE

LOCATION: (2)...(2)

OTHER INFORMATION: "X" may be either F or V

FEATURE:

NAME/KRY: MOD_RES

LOCATION: (5)...(5)

OTHER INFORMATION: AMIDATION

US-10-805-881-4
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                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 80.0
Matches 4; Conservative
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Best Local Similarity 80.0
Matches 4; Conservative
                                                         TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                               1 FVGLM 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 FXGLM 5
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ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
US-10-497-628-15
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; SEQ ID NO 4
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Sequence 2, Application US/10033026;
Sequence 2, Application US/10033026;
Publication No. US20020147309A1
GENERAL INFORMATION:
APPLICANT: Lipscombe, Diane
APPLICANT: Schorge, Stephanie
TITLE OF INVENTION: HUMAN N-TYPE CALCIUM CHANNEL ISOFORM AND USES THEREOF;
TITLE OF INVENTION: HUMAN N-TYPE CALCIUM CHANNEL ISOFORM AND USES THEREOF;
TITLE OF INVENTION: HUMAN N-TYPE CALCIUM CHANNEL ISOFORM AND USES THEREOF;
TITLE OF INVENTION: HUMBER: US/10/033,026;
CURRENT FILING DATE: 2001-12-28
FRIOR PELICATION NUMBER: US 60/077,901
FRIOR FILING DATE: 1999-03-12
FRIOR FILING DATE: 1999-03-13
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSEQ for Windows Version 3.0
LENGTH: 4
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'o. 1.3e+06; o; Indels
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SOFTWARE: Patentin Release #1.0, Version #1.30
               CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,409
FILING DATE: 07-UN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: MAK1, David J.
REGISTRATION NUMBER: 690068.409C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 622-6311
INFORMATION FOR SEQ ID NO: 30: SEQUENCE CHARACTERISTICS:
LENGTH: 4 minno acide
TYPE: amino acide
STRANDEDNESS:
TYPE: amino acide
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 64.0%; Score 16; DB Best Local Similarity 100.0%; Pred. No. 1.3 Matches 3; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-033-026-2
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Search completed: March 23, 2005, 15:07:06 Job time : 93 secs

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ORGANISM: Rana ridibunda

DEVELOPMENTAL STAGE: adult

TISSUE TYPE: brain

US-07-753-909B-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ITEE: AUANO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGKENT TYPE: C-terminal
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
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Sequence 2, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 61, Appli
Sequence 1, Appli
Sequence 4, Appli
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                                                                                             March 23, 2005, 14:37:21; Search time 30 Seconds (without alignments) 12.442 Million cell updates/sec
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Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/AB_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-07-753-909B-3

US-07-934-553-2

US-08-269-288-1

US-08-31-910-1

US-08-31-910-1

US-08-31-914-1

US-08-41-591-61

US-08-441-591-61

US-08-441-591-61

US-08-441-591-61

US-08-441-591-61

US-08-441-591-61

US-08-441-591-61

US-08-463-874-1

US-08-463-874-1

US-08-255-690C-1

US-08-255-690C-1

US-09-255-690C-1

US-09-255-690C-1
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US-08-638-407-24
US-09-264-709A-11
                                                                                                                                                                                                                                                                                      513545 segs, 74649064 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                 OM protein - protein search, using sw model
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Match Length
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                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0 Maximum DB seq length: 5
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                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                      Scoring table:
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                                                                                                                                                                                                       Sequence:
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No.
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Sequence 3 Sequence 2 Sequence 2 Sequence 2 Sequence 1 Sequence 1 Sequence 1 Sequence 2 Sequence 3 Sequence 3 Sequence 3 Sequence 5 Sequence 6	Family	ត ត
3 US-09-264-709A-33 3 US-09-264-709A-35 3 US-09-268-165-2 5 PCT-US94-10475-2 1 US-07-690-284A-2 1 US-07-690-284A-2 3 US-09-264-709A-1 3 US-09-264-709A-2 4 US-09-264-709A-2 4 US-09-264-709A-2 4 US-09-264-709A-2 4 US-09-264-709A-2 1 US-08-892-16 5 PCT-US94-10475-1 6 US-09-635-266-2 1 US-08-441-591-63 1 US-08-441-591-63 1 US-08-441-591-63 2 US-08-070-301-8 3 US-09-265-690C-2	ALIGNMENTS  1-3 Application US/07753909B 304632 ORMATION: CONMATION: Conlon, Michael J. INVENTION: Neuropeptides of the Tachykinin Spence Appless:	e, Thomte, Voorhees, and S
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$\begin{smallmatrix} 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 $	Applicatio Applicatio ORMATION: CONDITION: INVENTION: INVENTION: INVENTION: INVENTION: INDERTION: I	SEE: Zarley, Mc. 1901 Grand, Su. 1008 AX: United State 50309 AX: United State 51309 AX: TYPE: Floppy d BER: IBM PC Comp. ITYPE: Ploppy d APPLICATION DIA APPLICATION DIA APPLICATION SI FICATION: 530 PLICATION: 530 PLICATION: 530 PLICATION: 530 PLICATION: 530 PLICATION: 530 ATION NUMBER: F ATION NUMBER:
166 166 166 166 167 168 168 168 168 168 168 168 168 168 168	3, 5 1 INF CANT CANT CANT CANT CANT CANT CANT CANT	ADDRESSEE: Zarley, McKee, T CITY: Des Moines STARE: 10wa COINTRY: United States ZIP: 50309 COMPUTER: ELOPY disk COMPUTER: ENDABLE FORM: MEDIUM TYPE: Flopy disk COMPUTER: BM PC Compatible OPERATING SYSTEM: PC-DOS/MS SOFTWARE: PatentIn Release CURRENT APPLICATION DATA: APPLICATION NUMBER: US/O7/7 FILING DATE: 19910903 CLASSIFICATION NUMBER: FR 9106 FILING DATE: 19910903 CLASSIFICATION NUMBER: FR 9106 FILING DATE: 04-JUN-1991 ATPORNEY/AGENT INFORMATION: NAME: Sease, Edmund J RELEPHONE: (515)-288-3667 TELECOMMUNICATION INFORMATION: TELECOMMUNICATION ON 3: SEQUENCE CHARACTERISTICS: LENGTH: 5 amino acids
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RESULT 1 US-07-753-905 ; Sequence 3, ; Patent No.; ; GENERAL II; ; APPLICAL ; APPLICAL ; TITLE OI ; VUMBER (;	CO C

Score 20; DB 1; Length 5; Pred. No. 4.1e+05;

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Best Loca
Matches
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                    Gaps
                                                                                                                                                                                                                                         Sequence 2, Application US/07934553
Fatent No. 5314690
GENERAL INPORMATION:
APPLICANT: PATTERSON, ROY
APPLICANT: HARRIS, KATHLEEN E
ITILE OF INVENTION: METHOD AND COMPOSITION FOR REDUCING IGE
ITILE OF INVENTION: ANTIBODIES TO SPECIFIC ALLERGENS
NUMBER OF SEQUENCES:
ADDRESSEE: TILTON, FALLON, LUNGMUS & CHESTNUT
STREET: 100 SOUTH WACKER DRIVE
CITY: CHICAGO
STATE: ILLINOIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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APPLICANT: Gehlert, Donald R.
APPLICANT: Howbert, James J.
APPLICANT: Lunn, William H.W.
TITLE OF INVENTION: NAPHTHYL TACHYKININ RECEPTOR ANTAGONISTS
NUMBER OF SEQUENCES: 4
              1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
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ZIP: 60606-4002

ZIP: 60606-4002

COMPUTER READABLE FORM:
MEDIUW TYPE: Floppy disk
COMPUTER: 1BM PC Compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/934,553
FILING DATE: 19920821
CLASSITCATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/705,071
FILING DATE: 24-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: FEWTRESS, US 07/705,071
FILING DATE: 31,327
REFERENCE/DOCKET NUMBER: NU-9033CIP
TELECOMMUNICATION INFORMATION:
TELERENCE/DOCKET NUMBER: NU-9033CIP
TELECOMMUNICATION INFORMATION:
TELERENCE/DOCKET NUMBER: 31,327
REFERENCE/DOCKET NUMBER: 31,327
REFERENCE/DOCKET NUMBER: 31,327
TELERENCE/DOCKET NUMBER: 31,327
TELERENCE/DOCKET NUMBER: NU-9033CIP
TELERENCE/DOCKET NUMBER: NU-9033CIP
TELERENCE/DOCKET NUMBER: NU-9033CIP
TELERENCE/DOCKET NUMBER: 31,327
TELERENCE/DOCKET NUMBER: NU-9033CIP
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Pred. No. 4.1e+
0; Mismatches
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ADDRESSEE: Eli Lilly and Company
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/08269288
Patent No. 5491140
GENERAL INFORMATION:
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TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
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Matches 4; Conserv
                                                      1 FVGLM 5
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STREET ALING CONDUCTOR CENTER/104

COUNTY: Indianapolis and anapolis anap
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TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
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80.0%;
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Best Local Similarity 80.0
Matches 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
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                                   -08-418-994-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Hipskind, Philip A.
TITLE OF INVENTION: HEXAMETHYLENEIMINYL TACHYKININ RECEPTOR
TITLE OF INVENTION: ANTAGONISTS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSE: Eli Lilly and Company
STRET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                i, Indels
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/391,910
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INPORMATION:
NAME: GAPIO, Paul J.
REGISCRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9979
                                                                                                                                                                                                                                                        80.0%; Score 20; DB 1; 1
80.0%; Pred. No. 4.1e+05;
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Pred. No. 4.1e+05;
0; Mismatches 1;
REGISTRATION NUMBER: 16,926
REFERENCE/DOCKET NUMBER: NU 9033-CIP2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)-456-8000
TELEPAX: (312)-456-776
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                              . Sequence 1, Application US/08391910
; Patent No. 5563133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
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Best Local Similarity 80.0°
                                                                                                                                                                                                                                        Query Match
Best Local Similarity 80.0.
Fra 4; Conservative
                                                                                                                                                                  TOPOLOGY: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               single
                                                                                                                                                                                                    MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; MOLECULE TYPE: peptide US-08-391-910-1
                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: un)
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                                                                                                                                                                                                                      US-08-225-474-2
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SEGURATAL INFORMATION:

APPLICANT: HISPARTION:

ADDRESSEE: Bil Lilly and Company

TITLE OF INVENTION:

ADDRESSEE: Bil Lilly and Company

TITLE OF INVENTION:

ADDRESSEE: Bil Lilly and Company

TITLE OF INVENTION:

ADDRESSEE: Bil Lilly and Company

TOTY: Indianapolis

COMPUTER: Indianapolis

COMPUTER: TREADMENT FOR THE COMPANY

MEDIUMY TYPE: Floppy disk

COMPUTER: READMENT FOR THE COMPANY

APPLICANTON WINDER: US/08/418,994

CLASSITYATION SYSTEM: PC-DOS/NS-DOS

COMPUTER: STEMP COMPANY

MEDIUMY TYPE: Floppy disk

COMPUTER: STEMP COMPANY

MEDIUMY TROUGHT STEMP

MEDIUMY MEDIUMY SYSTEM: COMPANY

MEDIUMY MEDIUMY TYPE: Floppy disk

MEDIUMY TYPE: Floppy disk
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ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: LBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,591
FILING DATE:
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/391,814
FILING DATE:
GLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9965
TELEPHONE: (317) 276-0756
TELEPHONE: (317) 276-0756
TELEPAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
LEMOTH: S amino acids
LEMOTH: S amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 61, Application US/08441591
Patent No. 5637682
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.1e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80.0%; Score 20; DB 1; 80.0%; Pred. No. 4.1e+0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/303,362
FILING DATE: 9-SEPTEMBER-1994
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
RADE APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
RADE APPLICATION NUMBER: 07/931,473
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION NUMBER: 08/117,991
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                  single
                                                                                                                                                                                                                                                                                                                                                                                                                       / MOLECULE TYPE: peptide
US-08-391-814-1
                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 FVGLM 5
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US-08-441-591-61
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Gaps ö

1; Indels

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DB 1; Length 5;
                                                                                                              Score 20; DB 1; I Pred. No. 4.1e+05; 0; Mismatches 1;
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                     US-08-463-874-1
; Sequence 1, Application US/08463874
; Patent No. 584013
; GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Cho, Sung Y.
; APPLICANT: Crowell, Thomas A.
                                                                                                                                                                                                                                                                                                                                                                              Cho, Sung Y.
Crowell, Thomas A.
Gitter, Bruce D.
                                                                                                              80.0%;
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SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                                                                              Query Match
Best Local Similarity 80.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 80.0
Matches 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
STRANDEDNESS: single
                                 ; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-462-415-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: peptide
                     single
 TYPE: amino acid
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                                                                                                                                                                                                                            1 FXGLM 5
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                 STRANDEDNESS:
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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80.0%; Pred. No. 4.1e+05;
iive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Crowell, Thomas A.
APPLICANT: Crowell, Thomas A.
APPLICANT: Girches Bruce D.
APPLICANT: Hipskind, Philip A.
APPLICANT: Howbert, Jeffry J.
APPLICANT: Krushinski, Joseph H.
APPLICANT: Muchl, Brian S.
APPLICANT: Muchl, Brian S.
APPLICANT: Muchl, Brian S.
APPLICANT: Muchl, Brian S.
APPLICANT: Muchl, ANAMONISTS
TITLE OF INVENTION: ANTAGONISTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/462,415 FILING DATE: 05-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: 11 Lilly and Company
STREET: Lilly Corporate Center/Patent Division
CITY: Indianapolis
                                                                                                                                                                                                                                                                                                                 AROMATIC OR ALIPHATIC AMINO ACID
                                 NAME: Barry J. Swangon
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEPAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
CMMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5-08-462-415-1
Sequence 1, Application US/08462415
Patent No. 5670499
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INPORMATION:
NAME:
GAYLO, Paul J.
REGISTATION WUMBER: 36,808
REFERENCE/DOCKET NUMBER: X88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 317-276-0756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPAX: 317-276-3861
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                       4; Conservative
                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                     LOCATION: 2
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                              TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                     NAME/KEY: Xaa
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APPLICANT: Hipskind, Philip A.
APPLICANT: Howbert, Jeffry J.
APPLICANT: Krushinski, Joseph H.
APPLICANT: Krushinski, Joseph H.
APPLICANT: Muchl, Brian S.
APPLICANT: Mixon, James A.
TITLE OF INVENTION: NON-PEPTIDE TACHYKININ RECEPTOR
TITLE OF INVENTION: ANTAGONISTS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,874
FILING DATE: 05-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: GAYLO, Paul J.
REGISTRATION NUMBER: 36,808
REFRENCE/POCKET UNMBER: X8849C
TELECOMMUNICATION:
TELECOMMUNICATION: 1000RVATION:
TELECOMMUNICATION: 107-276-0756
                                                                                                                                                                                                                                                                     ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center/Patent Division
CITY: Indianapolis
STATE: IN
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| Patent No. 574482
| GENERAL INFORMATION:
| APPLICANT: Cohen, Marlene L. |
| APPLICANT: Tohnson, Kirk W. |
| APPLICANT: Phebus, Lee A. |
| TITLE OF INVENTION: USE.OF A SEROTONIN AGONIST IN THE TITLE OF INVENTION: TREATMENT OR PREVENTION OF MIGRAINE |
| TITLE OF INVENTION: TREATMENT OR PREVENTION OF MIGRAINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                     Sequence 1, Application US/08444135
Patent No. 5723575
Patent No. 61100.
Papticant: Gilon, Chaim
APPLICANT: Galinger, Zvi
APPLICANT: Byk, Gerardo
TITLE OF INVENTION: Their Preparation and Pharmaceutical Compositions
TITLE OF INVENTION: Containing Them
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: New YORK
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: LBM PC compatible
COMPUTER: LBM PC compatible
COMPUTER: LBM PC compatible
COMPUTER: LBM PC compatible
COMPUTER: DEAGLE: PAGENIT Release #1.0, Version #1.25
SOFTWARE: PAGENIT Release #1.0, Version #1.25
APPLICATION DATA:
APPLICATION NUMBER: US/08/444,135
FILING DATE: US/08/444,135
FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            80.0%; Score 20; DB 1; I
80.0%; Pred. No. 4.1e+05;
ative 0; Mismatches 1;
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OTHER INFORMATION: /label= Xaa
OTHER INFORMATION: /note= "Xaa = Phe or Val"
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Best Local Similarity 80.0s;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGIH: 5 amino acida
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STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 FVGLM 5
US-08-444-135-1
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US-08-318-391-1
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WOMER OF SEQUENCES: 4

COMPARED OF SEQUENCES: 4

ADDRESSE: 811.1111y and Company
ADDRESSE: 1811.111y and Company
ADDRESSE: 1811.111y and Company
ADDRESSE: 1811.111y and Company
ADDRESSE: 181.1111y and Company
ADDRESSE: 1811.111y and Company
COMPATER: Thadsapolis

ATTOMNEY/AGEN INVOMMATION

NAME: Obj. Pred. No. 4.1ee05;

ATTOMNEY/AGEN INVOMMATION

NAME: Obj. Pred. No. 4.1ee05;

ADDRESSE: ADDRESS: ADDRESS: ADDRESS: ADDRESS: ADDRESSE: ADDRESS
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Patent No. 617503
GENERAL INFORMATION:
APPLICANT: Hobert, James J.
APPLICANT: Hobert, James J.
APPLICANT: Muchl, Brian S.
TITLE OF INVENTION: IMIDAZOLINYL TACHYKININ RECEPTOR TITLE OF INVENTION: ANTAGONISTS
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSE: Eli Lilly and Company
STREET: Lilly Corporate Center/1104
CITY: Indianapolis
STATE: Indianapolis
STATE: Indianapolis
STATE: Indianapolis
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPPERATING STATE: 190Py disk
COMPUTER: STATE: Floppy disk
COMPUTER: STATE: Floppy disk
COMPUTER: USW PC Compatible
OPPERATION NUMBER: US/08/257,966
FILING DATE:
CLASSIFICATION NUMBER: 36,808
REGISTRATION NUMBER: 36,808
REGISTRATION INFORMATION:
NAME: GANJO, Paul J.
REGISTRATION INFORMATION:
TELEPHONE: (317) 276-3861
INFORMATION POR SEQUENCE
TELEPHONE: GANDOR SEGO ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH ENTER DEADER SEGO ID NO: 1:
LENGTH ENTER DEADER
TYDER: TELEPHONE: GANDOR SEGO ID NO: 1:
LENGTH ENTER DEADER SEGO ID NO: 1: 1:
LENGTH ENTER DEADER SEGO ID NO: 1: 1: 1: 1: 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 80.0%; Score 20; DB 2; I Best Local Similarity 80.0%; Pred. No. 4.1e+05; Matches 4; Conservative 0; Mismatches 1;
REFERENCE/DOCKET NUMBER: 00108/028002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEPACK: 617-542-8906
; TELERAX: 617-542-8906
; TELERAX: 617-542-8906
; TELERAX: 617-542-8906
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acids
; TYPE: amino acids
; MOLECULE TYPE: protein
; WOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 FVGLM 5
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US-08-257-966-1
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1 FXGLM 5

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Search completed: March 23, 2005, 14:50:59
Job time : 31 secs
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein March 23, 2005, 15:03:13; Search time 38 Seconds (without alignments) 10.128 Million cell updates/sec Run on:

Perfect score:

1 fglm 4 Sequence:

**BLOSUM62** Scoring table:

Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters:

283416 segs, 96216763 residues

Searched:

98

seq length: 0 seq length: 4 Minimum DB Maximum DB Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

PT0240 A53284 PT0633 B23751 E44823 B53284 PT0636 PT0571 S68328 GKHU Length Query Match Score Result No.

Teell receptor be spinal cord peptid synaptosomal-assoc T-cell receptor be blood cell protein growth-modulating bursin chicken spinal cord peptid antho-Remaide neur hypothetical protein starvation-induced hypothetical prote COI intron 16 prot autho-RF amide neu RPCH-related neuro ubiquitin - rat globulin IV alpha carbon-monoxide de neuropeptide Antho neuropeptide Antho FMRFamide - polych achatin-I - giant Ig heavy chain CRD Ig heavy chain CRD myosin-light-chain chain V regi Description Ig mu chain ubiquitin D41654 S53508 T30569 I38888 A25844 A34626 S43959 S47552 S09478 PL0140 A23751 ECXAA A60898 460418 

T-cell receptor be	tyrosine-melanocyt	cardioexcitatory n	angiotensin-conver	histidinol dehydro	gene p20K protein	T-cell receptor be	tyrosine protein k	cytochrome-c oxida	thyroglobulin - do						
PT0711	PT0698	PT0677	PT0706	PT0675	PT0721	PT0566	A32039	ECNK	PQ0010	S13894	150412	PT0578	178890	T13892	S18401
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4	4	4	4	4	4	4	4	4	e	m	ო	m	m	e	4
9.	9.	28.6	28.6	9.	9.	28.6	9.	9.	23.8	23.8	23.8	23.8	23.8	8.	8.
28	28.	28	28	28.	28	28	28.	28.	23	23	23	23	23	23	23
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30	31	32	33	34,	35	36	37	38	39	40	41	42	43	44	45

### ALIGNMENTS

RESULT 1 PT0240 Ig heavy chain CRD3 region (clone 2-100B) - human (fragment) C;8pecies: Homo sapiens (man)	C.Accession: PT0240 P. Programm, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G. J. Exp. Med. 173, 395-407, 1991	A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity A;Reference number: PT0222; MUID:91108337; PMID:1899102 A;Accession: PT0240	A,Molecule type: DNA A,Residues: 1-4 <adan A.Reverimental convers Blumchhoovte</adan 	C; Keywords: heterotetramer; immunoglobulin

and jc

Gaps ; Indels Length 4; 47.6%; Score 10; DB 2; Le 100.0%; Pred. No. 2.8e+05; iive 0; Mismatches 0; Conservative Query Match Best Local Similarity Matches 2; Conserva m 2 GL ð

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RESULT 2

A53284
T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C;Species: O'rectolagus cuniculus (domestic rabbit)
C;Species: O'rectolagus cuniculus (domestic rabbit)
C;Species: O'rectolagus cuniculus (domestic rabbit)
C;Accession: A53284
R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
Mol. Immunol. 28, 881-888, 1991
A;Fitle: Evolutionarily conserved organization and sequences of germline diversity and jc
A;Reference number: A53284
A;Accession: A53284
A;Accession: A53284
A;Reterence number: A53284
A;Reterence number: A53284
A;Reterence number: A53284
A;Reterence content of the conserved organization and sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60739)
C;Keywords: T-cell receptor

Query Match 47.6%; Score 10; DB 2; Length 4; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indels

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Gaps

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T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Accession: B3284
R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
A;Title: Evolutionarily conserved organization and sequences of germline diversity and jc. A;Title: Evolutionarily conserved organization and sequences of germline diversity and jc. A;Accession: B3284
A;Reference number: A53284; MUD:91342695; PMID:1678859
A;Accession: B53284
A;Accession: B53284
A;Accession: Breliminary
A;Molecule type: DNA
A;Residues: 1-4 c+MAx
A;Residues: 1-4 c+MAx
A;Residues: Caracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C;Keywords: T-cell receptor
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C;Species: Mus musculus (house mouse)
C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C;Accession: PT051
F;FenerY, A.J
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601, PMID:1711558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
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C;Species Mus musculus (house mouse)
C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C;Accession: PT0636
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Pred. No. 2.8e+05;
1; Mismatches 0; Indels
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A,Molecule type: mRNA
A,Residues: 1-3 <FEE>
A,Experimental source: day 19 fetal thymus, strain BALB/c
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A;Molecule type: mRNA
A;Residues: 1-3 <FEE>
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NyAlternate names: Buperprotein peptide 1
CySpecies: OryCtolagus cuniculus (domestic rabbit)
CySpecies: OryCtolagus cuniculus (domestic rabbit)
CyAccession: E44823
#sequence_revision 18-Nov-1994 #text_change 15-Jun-1996
CyAccession: E44823
Willer: The major 35S-methionine-labeled rapidly transported protein (superprotein) is AyItle: The major 35S-methionine-labeled rapidly transported protein (superprotein) is AyReference number: A44823; MUD:92044785; PMID:1941090
AyReference number: A44823
AyStatus: protein
AyResidues: 1-4 <LOS-AyRole is protein
AyReference cextracted from NCBI backbone (NCBIP:64247)
CyReywords: membrane trafficking
                                                                    C; Date: 17.Jul-1992 #sequence_revision 17.Jul-1992 #text_change 09-Jul-2004
C; Accession: PT0633
R; Feeney, A.J.
J; Bxp. Med. 174, 115-124, 1991
A; Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A; Accession: PT0609; MUID:91277601; PMID:1711558
A; Accession: PT0633
A; Status: translation not shown
A; Molecule type: mRNA
A; Residues: 1-4 < FEE>
A; Cross-references: UNIPROT:09BIV7
A; Experimental source: newborn thymus, strain BALB/C
C; Keywords: T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               spinal cord peptide SCP-5 - pig
CiSpecies: Sus scrofa domestica (domestic pig)
CiSpecies: Sus scrofa domestica (domestic pig)
CiAccession: B23751
RiHsi, K.L.; Chen, R.L.; Chen, Z.G.; Zhang, H.L.; Lu, Y.A.; Guo, S.Y.; Wu, S.X.; Tsou, Arch. Blochem. Biophys. 240, 178-183, 1985
Arch. Blochem. Biophys. 240, 178-183, 1985
A.R. Eference number: A23751; MUID:85250425; PMID:4015098
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                        -cell receptor beta chain V-D-J region (120-2C) - mouse (fragment)
Species: Mus musculus (house mouse)
1Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
Accession: PT0633
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Pred. No. 2.8e+05;
1; Mismatches 0; Indels
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Pred. No. 2.8e+05;
1; Mismatches 0; Indels
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Best Local Similarity 50.0%;
Matches 1; Conservative
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Best Local Similarity 50.0°
Matches 1, Conservative
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Matches 1; Conserve
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A, Status: preliminary
A, Molecule type: protein
A, Residues: 1-3 < HSI>
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spinal cord peptide SCP-4 - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 15-Jun.2001 #sequence_revision 15-Jun.2001 #text_change 15-Mar-2004
C;Accession: A23751
R;Hsi, KL.; Chen, R.L.; Chen, Z.C.; Zhang, H.L.; Lu, Y.A.; Guo, S.Y.; Wu, S.X.; Tsou, K.
Arch. Biochem. Biophys. 240, 178-183, 1985
A;Reference number: A23751; MUID:85250425; PMID:4015098
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R;Grimmelikhuijzen, C.J.P.; Graff, D.
Proc. Natl. Acad. Sci. U.S.A. 83, 9817-9821, 1986
A;Title: Isolation of <Glu-Gly-Arg-Phe-NH2 (Antho-RFamide), a neuropeptide from sea anemc A;Reference number: A26666; MUID:87092339; PMID:2879288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A.Molecule type: protein
A.Residues: 1-4 GRI>
A.Cross-references: UNIPROT.P10419
A.Cross-references: UNIPROT.P10419
C.Comment: The function of this peptide is not known but it could act as a transmitter at C.Comment: Synthetic and natural peptides had identical properties.
C.Superfamily. RFamide neuropeptide
C.Stuperfamily. RFamide neuropeptide
C.Stuperfamily. RFamide neuropeptide
F.1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F.1/Modified site: amidated carboxyl end (Phe) #status experimental
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D41654
Cypothetical protein (sodC 5' region) - Haemophilus parainfluenzae (fragment)
Cypothetical protein (sodC 5' region) - Haemophilus parainfluenzae
Cypothetical protein parainfluenzae
Cybate: 12-Jun-1992 #sequence_revision 12-Jun-1992 #text_change 24-Feb-1995
CyAccession: D41654
RyKroll, J3.5: Langford, P.R.; Loynds, B.M.
J. Bacteriol. 173, 7449-7457, 1991
A;Title: Copper-zinc superoxide dismutase of Haemophilus influenzae and Haemophilus para;
A;Reference number: A41654; MUID:92041655; PMID:1938942
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C;Species: Anthopleura elegantissima
C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004
                                                                               Gaps
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                          28.6%; Score 6; DB 3; Length 3; 100.0%; Pred. No. 2.8e+05; ive 0; Mismatches 0; Indela
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100.0%; Pred. No. 2.8e+05;
ive 0; Mismatches 0;
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                          Query Match
Best Local Similarity
Matches 1; Conserve
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A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-3 <HSI>
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Matches 1; Conserv
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Best Local Similarity
Matches 1; Conserv
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Molecule type: protein
A;Residues: 1-3 <SCH>
A;Note: this serum tripeptide is found to stimulate growth of some cell types and to inh
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C;Species: Gallus gallus (chicken)
C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
C;Accession: A60898
C;Accession: A60898
R;Audhya, T.; Kroon, D.; Heavner, G.; Viamontes, G.; Goldstein, G.
Science 231, 997-999, 1986
A;Title: Trippetide structure of bursin, a selective B-cell-differentiating hormone of A;Reference number: A60898; MUD:86122916; PMID:3484838
                                                                                                                                                                                                                                                                                                      S68328

blood cell protein A - Molgula manhattensis (fragment)

c;Species: Molgula manhattensis

c;Species: Molgula manhattensis

c;Accession: S68328

R;Taylor, S.W.; Ross, M.M.; Waite, J.H.

Arch. Biochem: Biophys. 324, 228-240, 1995

A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides from this Manner anumber: S68328, MUID:96132650; PMID:8554314
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C;Species: Homo sapiens (man)
C;Accession: A01421
R;Schlesinger, D.H.; Pickart, L.; Thaler, M.M.
Experientia 33, 324-325, 1977
A;Tille: Growth-modulating serum tripeptide is glycyl-histidyl-lysine.
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A;Residues: 1-3 <AUD>
C;Keywords: amidated carboxyl end; hormone
F;3/Modified site: amidated carboxyl end (Gly) #status experimental
                                                                                                  0; Indels
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28.6%; Score 6; DB 3; Ler
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 0; Mismatches 0;
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100.0%; Pred. No. 2.8
vative 0; Mismatches
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C; Keywords: T-cell receptor
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Best Local Similarity
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Starvation-induced ribonuclease - tomato
C:Species: Lycopersicon esculentum (tomato)
C:Species: Lycopersicon esculentum (tomato)
C:Species: Lycopersicon esculentum (tomato)
C:Accession: S53508
R:Koeck, M.; Loeffler, A.; Abel, S.; Glund, K.
Plant Mol. Biol. 27, 477-485, 1995
A;14.le: cDNA structure and regulatory properties of a family of starvation-induced ribc A,Reference number: S53506; MUID:95201242; PMID:7894013
A;Accession: S53508
A;Status: prediminary
A;Wolecule type: protein
A;Residues: 1-4 <KOE>
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A, Accession: D41654
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-4 < KRO>
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Search completed: March 23, 2005, 15:13:39 Job time : 38 secs

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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                  Copyright
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protein search, using sw model OM protein - March 23, 2005, 14:51:07; Search time 171 Seconds (without alignments) 11.978 Million cell updates/sec Run on:

Title:

21 1 fglm 4 Perfect score: Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

1612378 seqs, 512079187 residues Searched:

Total number of hits satisfying chosen parameters:

56

Minimum DB seq length: 0 Maximum DB seq length: 4

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

UniProt\_03:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

homo sapien achatina fu pseudomonas hirudo medi anthopleura macrocallis P58648 octopus min P83568 sepia offic P83570 sepia offic rattus sp. vibrio fisc hirudo medi anthopleura homo sapien pseudomonas homo sapien notophthalm homo sapien anthopleura octopus min saccharomyc hirudo medi bombina ori sus scrofa ovis aries Description P01157 P19916 P19916 P02331 P42563 P42563 P42563 P42563 P42563 P58707 P01162 P58707 P01162 P58707 P01162 P58706 Q96at0 Q08433 P24272 P36515 P62970 GRWM HUMAN
ACHI\_ACHFU
DCML\_PSECH
EOSI\_HUMAN
FARS\_HIRME
FAR4\_HIRME
FRR4\_HIRME FLRN ANTEL FRRF MACNI FYRI ANTEL OCP3 OCTMI Q16047 DCMS PSECH Q96AT0 008433 LUXE VIBFI YLM1 YEAST THYL BOMOR Query Match Length DB Score Result ě

ö MEDLINE=20336815; PubMed=10876044; DOI=10.1016/S0196-9781(00)00201-1; than Ocp-1.
-!- SUBCELLULAR LOCATION: Secreted.
-!- FTW: Ocp-2 has 1-Phe instead of D-Phe.
-!- PTW: Ocp-2 has 1-Phe instead of D-Phe.
-!- MASS SPECTROMETRY: NM=395.2; METHOD=MALDI; RANGE=1-4; NOTE=Ref.1.
D-amino acid; Direct protein sequencing; Hormone.
MOD RES 2 D-phenylalanine (in form Ocp-1).
SEQÜENCE 4 AA; 394 MW; 6AA879C810000000 CRC64; Gaps Peptides 21:623-630 (2000). -!- FUNCTION: Cardioactive; has both positive chronotropic and inotropic effects on the heart. Ocp-2 is a 1000 time less active 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
Cardioactive peptides Ocp-1/Ocp-2.
Octopus minor (Octopus).
Eukaryota; Metacos; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
NCBI\_TaxID=89766; ö SEQUENCE, SYNTHESIS, MASS SPECTROMETRY, AND CHARACTERIZATION 57.1%; Score 12; DB 1; Length 4; 100.0%; Pred. No. 1.6e+06; Live 0; Mismatches 0; Indels Query Match
Best Local Similarity 100...
Best Local 2; Conservative STANDARD; 1 FG 2 TISSUE=Brain; 

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TISSUE=Egg; MEDLINE=22197108; PubMed=12207899; DOI=10.1016/S0006-291X(02)02036-3; Sepia Bukaryota, Metazoa, Mollusca, Cephalopoda, Coleoidea, Neocoleoidea, Decapodiformes, Sepioidea, Sepidae, Sepia. NCBI\_TaxID=6610; Zatylny C., Gagnon J., Boucaud-Camou E., Henry J.; "ILME: a waterborne pheromonal peptide released by the eggs of MEDLINE=20403899; PubMed=10944467; DOI=10.1006/bbrc.2000.3286; SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS Biochem. Biophys. Res. Commun. 275:217-222 (2000). P83568; 29-MAR-2004 (Rel. 43, Created) 29-MAR-2004 (Rel. 43, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) Pheromone peptide ILME. Sepia officinalis (Common cuttlefish). 4 AA. PRT: STANDARD; officinalis."; rissue=Egg; ILME SEPOF SEQUENCE ILME\_SEPOF 

sapien

homo

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residue."
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ACH1_ACHFU
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DCML_PSECH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-Optic lobe;

X MEDLINE-98100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;

XA Henry J., Favrel P., Boucaud-Camou E.;

RT Tisolation and identification of a novel Ala-Pro-Gly-Trp-amide-related inhibiting the motility of the mature oviduct in the cuttlefish, Sepia officinalis.";

RT Peptide inhibiting the motility of the mature oviduct in the cuttlefish, Sepia officinalis.";

RT Peptides 18:1469-1474(1997).

CC -1- FUNCTION: Regulatory neuropeptide with myotropic activity targeting the distal oviduct. Inhibits the motility of the oviduct by decreasing tonus, frequency and amplitude of contractions.

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- MASS SPECTROMETRY: MW=259.9; METHOD=MALDI; RANGE=1-2; NOTE=Ref.1.

KW MOD RES -2 AA; 261 MW; 73781000000000 CRC64;
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Eukaryota, Metazoa, Mollusca, Cephalopoda, Coleoidea, Neocoleoidea,
Decapodiformes, Sepioldea, Sepiidae, Sepia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa; Chordata; Craniata; Vertebrata, Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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                                        42.9%; Score 9; DB 1; Length 4;
100.0%; Pred. No. 1.6e+06;
ive 0; Mismatches 0; Indele
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4 AA; 505 MW; 6B1697203000000 CRC64;
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29-MAR-2004 (Rel. 43, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Neuropeptide GWa.
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Growth-modulating peptide.
                                                                                                                                                                                                                                                                      2 AA.
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                                                                                Conservative
                                                                                                                                                                                                                                                                STANDARD;
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                                 Query Match
Best Local Similarity
Matches 2; Conserv
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P83570;
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Sigmurethra; Achatinoidea; Achatinidae; Achatina.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=93014529; PubMed=1399265; Ishida T., In Y., Doi M., Inoue M., Yasuda-Kamatani Y., Minakata H., Ishashita T., Nomoto K.; "Crystal structure and molecular conformation of achain-I (H-Gly-D-Phe-Ala-Asp-OH), an endogenous neuropeptide containing a D-amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE 927351; PubMed=2597281;
MEDLINE 92927351; PubMed=2597281;
Kamatani Y., Minakata H., Kenny P.T.M., Iwashita T., Watanabe K.,
Funase K., Sun X.P., Yongsiri A., Kim K.H., Nowoto K.;
Novales E.T., Kanapi C.G., Takeuchi H., Nomoto K.;
#Achatin-I, an endogenous neuroexcitatory terrapeptide from Achatine fulica Ferussac containing a D-amino acid residue.";
Blochem. Biophys. Res. Commun. 160:1015-1020(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=Ferussac; TISSUE=Heart atrium; MEDLINE=91264856; PubMed=1675568; Fujimoto K., Kubota I., Yasuda-Kamatani Y., Minakata H., Nomoto K., Yoshida M., Harada A., Muneoka Y., Kobayashi M.; "Purification of achatin-1 from the atria of the African giant snail, Achatina fulica, and its possible function."; Biochem. Biophys. Res. Commun. 177:847-853(1991).
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                                                                                                                                                                                                                                                                                       01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
                                                                                                                                                                                                                                                             4 AA.
  1 Similarity 100.0%; Score 6; DB 1 Similarity 100.0%; Pred. No. 1.6 1; Conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE, CHARACTERIZATION, AND SYNTHESIS.
                                                                                                                                                                                                                                                                                                                                                                                   Achatina fulica (Giant African snail)
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P19916;
01-FEB-1991 (Rel. 17, Created)
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Query Match
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MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N; Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.; "Indentification of FRamide neuropeptides in the medicinal leech."; Peptides 12:897-908(1991).
-! SUBCELLULAR LOCATION: Secreted.
-! SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
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01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
FWRFamide-like neuropeptide YMRF-amide-
Hirudo medicinalis (Medicinal leech).
Hirudo medicinalis (Medicinal leech).
Authynchobdallida; Annelida; Clitellata; Hirudinida; Hirudinea;
Artynchobdallida; Hirudiniformes; Hirudinidae; Hirudio.
                                                                                                                                                                                                                                                                                                                  FMRFamide-like neuropeptide YLRF-amide.
Hirudo medicinalis (Medicinal leech).
Eukaryota, Metazoa, Annelida, Clitellata, Hirudinida, Hirudinea,
Arhynchobdellida, Hirudiniformes, Hirudinidae, Hirudo.
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MOD RES 4 4 Phenylalanine amide.
SEQUENCE 4 AA; 616 MW; 69D4068B30000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 4 Phenylalanine amide. 4 AA; 598 MW; 69D4073B30000000 CRC64;
                                                                                                                                                                                                                                       01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                          4 AA.
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P42562;
01-NOV-1995 (
01-NOV-1995 (
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-!- MISCELLANEOUS: These peptides are released from mast cells in lung (and other tissues) during hypersensitivity reactions (anaphylaxis). Their activities, preferentially affecting eosinophils, include chemotaxis, chemotactic deactivation, release of enzymes, and stimulation of the hexose monophosphate shunt. GO; GO:0006955; P:immune response; IDA.

GO: GO: O006955; P:immune response; IDA.

Direct protein sequenching.
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-!- COFACTOR: Binds 1 copper(1) ion, 1 molybdenum(VI) ion and 1 molybdopterin cytosine dinucleotide (MCD) per subunit.
-!- SUBUNIT: Heterotrimer consisting of a large, a medium and a small
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goetzl E.J., Austen K.F.; "Puritication and synthesis of eosinophilotactic tetrapsptides of human lung tissue: identification as eosinophil chemotactic factor of anaphylaxis.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                                                                                                                                                                                                                                                                        Kraut M., Hugendieck I., Herwig S., Meyer O.;
"Homology and distribution of CO dehydrogenase structural genes in
                                                                                                                                                                                                                                                                                                                                                                                                                               -!- FUNCTION: Catalyzes the oxidation of carbon monoxide to carbon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
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                                                                                                                                                            Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae.
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01-FEB-1991 (Rel. 17, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Carbon monoxide dehydrogenase large chain (EC 1.2.99.2)
dehydrogenase subunit L) (CO-DH L) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        h Similarity 100.0%; Pred. No. 1.6e+06; 1; Conservative 0; Mismatches 0; Indele
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PIR; PL0140; PL0140.
Direct protein sequencing; Molybdenum; Oxidoreductase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 AA; 390 MW; 6B05B862A0000000 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                             carboxydotrophic bacteria.";
Arch. Microbiol. 152:335-341(1989).
                                                                                                                                                                                                                                                                                         MEDLINE=90055678; PubMed=2818128;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=76078412; PubMed=1060093;
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                                                                                                                                  Pseudomonas carboxydohydrogena
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MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
"FMRFamide-related peptides from the kidney of the snail, Helisoma
trivolvis.";
                                                                                                                                                                                                                              MEDLINE=93391436; PubMed=8397415;
McFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.
"The expansion behaviour of sea anemones may be coordinated by two inhibitory neuropeptides, Antho-Khamide and Antho-Riamide.";
Proc. R. Soc. Lond. B. Biol. Sci. 253:183-188(1993).
-!-FUNCTION: Inhibits spontaneous contractions in several muscle groups. May be involved in the expansion phase of feeding behaviour in sea anemones.
                                                                                                                                             MEDLINE=92028852, PubMed=1681803;
Nothacker H.-P., Rinehart K.L. Jr., Grimmelikhuijzen C.J.P.,
"Isolation of L-3-phenyllactyl-Phe-Lyg-Ala-NH2 (Antho-KAamide), a
novel neuropeptide from sea anemones ";
Biochem. Biophys. Res. Commun. 179:1205-1211(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES=H.medicinalis;
MEDLINE=29195594; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
"Identification of Reamide neuropeptides in the medicinal leech.";
Peptides 12:897-908(1991).
                                                                               Anthopleura elegantissima (Sea anemone).
Bukaryota, Metazoa, Cnidaria, Anthozoa, Zoantharia, Actiniaria,
Nynantheae, Actiniidae, Anthopleura.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
Arhynchobdellida; Hirudiniformes; Hirudinidae; Hirudo.
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1- SUBCELLULAR LOCATION: Secreted.

1- TISSUE SPECIFICITY: Neuron specific.

PIR, JQ1273; JQ1273.

Amidation; Direct protein sequencing; Neuropeptide.

MOD RES.

1 1 3-phenyllactic acid.
                                                                                                                                                                                                                                                                                                                                                                                     4 4 Alânine amide.
4 AA; 512 MW; 6DD339C9A0000000 CRC64;
                             28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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100.0%; Pred. No. 1.6
tive 0; Mismatches
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             STANDARD;
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                                                                   Antho-Kaamide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Macrocallista nimbosa (Sun-ray clam),
Neris virens (Sandworm),
Hirdo medicinalis (Medicinal leech), and
Helisoma trivolvis (Snail)
Bukaryota; Metazoa; Mollusca; Bivalvia; Heteroconchia; Veneroida;
Veneroidea; Veneridae; Macrocallista.
Peptides 15:31-36(1994).
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
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                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                 28.6%; Score 6; DB 1; Length 4; 100.0%; Pred. No. 1.6e+06; ative 0; Mismatches 0; Indels
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                                                        family.

Amidation; Direct protein sequencing; Neuropeptide.

MOD RES 4 Phenylalanine amide.

SEQUENCE 4 AA; 582 MW; 69D40729A0000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -1- MASS SELUCION SEQUENCING; Neuropeptide.
Amidation; Direct protein sequencing; Neuropeptide.
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004~(Rel. 44, Last annotation update)
FMRFamide (Peak C) (Cardioexcitatory neuropeptide).
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SEQUENCE 4 AA; 549 MW; 64540729A000000 CRC64;
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100.0%; Pred. No. 1.6e+06;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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Search completed: March 23, 2005, 15:10:03 Job time : 172 secs
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                                                                                                                                                                                                          Price D.A., Greenberg M.J.;
"Purification and characterization of a cardioexcitatory neuropeptide from the central ganglia of a bivalve mollusc.";
Prep. Biochem. 7:261-281(1977).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SPECIES-H.trivolvis; TISSUE-Kidney;
MEDLINE-94286417; Pubmed=791248; DOI=10.1016/0196-9781(94)90166-X;
Madrid K.P., Frice D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
"FWRFamide-related peptides from the kidney of the snail, Helisoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptides 15:31-36(1994).
-1- FUNCTION: Myoactive; cardioexcitatory substance. Pharmacological activities include augmentation, induction, and regularization of
                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=90259866; PubMed=2342992; DOI=10.1016/0196-9781(90)90113-J; Krajniak K.G., Price D.A.; "Authentic FWRFamide is present in the polychaete Nereis virens."; Peptides 11:75-77(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES=H.medicinalis;
MEDLINE=22195554; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
WEDRINE=22195554; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
SPANS B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
"Identification of Remaide neuropeptides in the medicinal leech.";
Peptides 12:897-908(1991).
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SPECIES=M.nimbosa; TISSUE=Cerebral pedal, and Visceral ganglion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Anthopleura elegantissima (Sea anemone).
Eukaryota, Metazoa, Cnidaria, Anthozoa, Zoantharia, Actiniaria,
Nynantheae, Actiniidae, Anthopleura.
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-!- SIMILARITY: Belongs to the FARP (FWRFamide related peptide)
                                           Price D.A., Greenberg M.J.; "Structure of a molluscan cardioexcitatory neuropeptide."; Science 197:670-671 (1977).
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Amidation; Direct protein sequencing; Neuropeptide.
MOD RES 4 4 Phenylalanine amide.
SEQUENCE 4 AA; 600 MW; 69D40699A0000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
29-UDL-2004 (Rel. 44, Last annotation update)
Antho-Riamide I [Contains: Antho-Riamide II].
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                                                                                                                                      SEQUENCE, AND CHARACTERIZATION.
SPECIES=M.nimbosa; TISSUE=Ganglion;
MEDLINE=78012038; PubMed=909875;
                            MEDLINE=77215956; PubMed=877582;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Conservative
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SPECIES=N.virens;
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WEDINRE-31391416; PubMed=8397415;

MAFAILANE-31391436; PubMed=8397415;

MAFAILANE-31391436; PubMed=8397415;

MARTION: Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;

The expansion behaviour of sea anemones may be coordinated by two
RT inhibitory neuropeptides, Antho-KAamide and Antho-RIamide.";

Proc. R. Soc. Lond., B. Biol. Sci. 253:188(1993).

CC groups. May be involved in the expansion phase of feeding

CC groups. May be involved in the expansion phase of feeding

CC G-I- FUNCTION: Inhibits spontaneous contractions in several muscle

CC G-I- FUNCTION: Inhibits spontaneous contractions in several muscle

CC G-I- FUNCTION: Inhibits spontaneous

CC G-I- FUNCTION: A Antho-Riamide I.

Antho-Riamide I.

FT GHAIN

Z Antho-Riamide I.

Antho-Riamide I.

CHAIN

Z Antho-Riamide II.
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MEDLINE=20336815; Pubmed=10876044; DOI=10.1016/S0196-9781(00)00201-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Iwakoshi E., Hisada M., Minakata H.;
"Cardioactive peptides isolated from the brain of a Japanese octopus,
Octopus minor.";
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-!- MASS SPECTROMETRY: WW=395.2; WETHOD=WALDI; RANGE=1-4; NOTE=Ref.1.
D-amino acid; Direct protein sequencing; Hormone.
2 2 D-serine (in form Ocp-4).
SEQÜENCE 4 AA; 463 MW; 6AB365B810000000 CRC64;
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                 unusual,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea; Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
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"Isolation of two novel neuropeptides from sea anemones: the biologically active L-3-phenyllactyl-Tyr-Arg-Ile-NH2 and its phenyllactyl fragment Tyr-Arg-Ile-NH2."; Peptides 12:1165-1173(1991).
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4 AA; 598 MW; 60441B59A0000000 CRC64;
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OM protein - protein search, using sw model

March 23, 2005, 14:52:02; Search time 164 Seconds (without alignments) 9.433 Million cell updates/sec Run on:

SEQ3 Title:

21 1 fglm 4 Perfect score: Sequence:

BLOSUM62 Scoring table:

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2105692 segs, 386760381 residues Searched:

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Database

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMADIES

	Description	Aaw41683 Peptide u	Aay31075 Non-cross	Aab23026 Human/rat	Aay67577 P antagon	Aab91447 Tachykini	Abb10091 Substance	Aau77846 Tachykini	Ade94198 High acti				-	Abb10092 Substance	Aap61707 Sequence			Aab12293 Prodrug o	_		Adl78809 Exemplary	Aay67578 P antagon	Aab91448 Tachykini	Aap60334 Peptide w	Aaw77469 Tetrapept	Aaw41684 Tetrapept
SUMMAKIES	ΙD	AAW41683	AAY31075	AAB23026	AAY67577	AAB91447	ABB10091	AAU77846	ADE94198	ADR43772	AAP61654	AAP71301	AAW41686	ABB10092	AAP61707	AAP71312	AAY23485	AAB12293	AAG62647	ABB88046	ADL78809	AAY67578	AAB91448	AAP60334	AAW77469	AAW41684
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	Aap61659 Sequence Aap11306 Peptide c Aar34186 FGIA. 8/1 Aar46020 Serine pr	0041		Abg77484 Targettin Aap61658 Sequence Aap71287 Opiate bi Aap82691 Renin inh Aar15768 Farnesyl-	
AAW41685 AAB91795 AAB91822	AAP61659 AAP71306 AAR34486 AAR46020	AAR93149 AAB12292 AAB91714	ABB88045 ABG3223 ADQ91509 ADS74433	ABG77484 AAP61658 AAP71287 AAR82691	AAR4 /235
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## ALIGNMENTS

AAW41683 standard; peptide; 4 AA. RESULT 1 AAW41683

AAW41683;

(first entry) 09-JUN-1998

Peptide used in ophthalmic drug to treat corneal disorders.

Ophthalmic drug; corneal disorder; ulcer, epithelial peeling; dry eye; keratitis; insulin like growth factor-I; IGF-I; eye drop. 

Synthetic.

/note= "C-terminal amide" Location/Qualifiers Key Modified-site

WO9749419-A1

31-DEC-1997.

97WO-JP002015. 11-JUN-1997;

96JP-00165612. 26-JUN-1996;

(SANT ) SANTEN PHARM CO LID.

Nishida T, Nakamura M, Nakata K;

WPI; 1998-076907/07.

Ophthalmic drug composition containing tetra:peptide - is useful as corneal disorder remedy for corneal ulcer, corneal epithelial peeling, dry eye, keratitis.

Claim 1; Page 15; 19pp; Japanese.

The present sequence represents a tetrapeptide which is the active ingredient in an ophthalmic drug composition. It is used, together with insulin like growth factor-I (IGF-I), to treat corneal disorders such as corneal ulcer, corneal epithelial peeling, dry eye and Keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the tetrapeptide and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The preferable form of the composition is eye drops

Sequence 4 AA;

AAB23026 standard; peptide; 4 AA.

AAB23026

FGLM

16-JAN-2001 (first entry)

AAB23026;

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This invention describes a novel aqueous suspension of monodisperse catalogues on non-crosslinked, non-denatured albumin (50-5000 nm) which is stable against dissolving upon dilution with an alcohol-free aqueous catalogue. The method involves (a) forming an aqueous solution containing albumin and hemoglobin and (b) treating the aqueous solution containing alcohol to cause the solution to become turbid. The particles are useful as agents for in vivo administration, either of their own administration or as a vehicle for other therapeutic or diagnostic agents. The method nameter and micrometer size range, in a form closer to their natural form than the forms of the prior art. The particles therefore constitute form than the forms of the prior art. The particles therefore constitute a more closely controlled agent for in vivo administration, with greater case of clearance from the body after their period of usefulness.
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                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Non-crosslinked protein particles for therapeutic and diagnostic use.
                                             ;
              Length 4;
                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 21; DB 2; Length 4; larity 100.0%; Pred. No. 1.8e+66; Conservative 0; Mismatches 0; Indels
      100.0%; Score 21; DB 2; L
100.0%; Pred. No. 1.8e+06;
Live 0; Mismatches 0;
                                                                                                                                                                                                                                                            Non-crosslinked protein particle peptide 124.
                                                                                                                                                                                                                                                                                                                                                                                                   /note= "C-terminal amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 22; Col 103-104; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                    AAY31075 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     91US-00641720.
92US-00959560.
93US-00069831.
94US-00212546.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96US-00747137
Query Match 100.
Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                             21-OCT-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HEMO-) HEMOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-508153/42.
                                                                1 FGLM 4
                                                                                                                                                                                                                                                                                                                                                                     Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-OCT-1992;
01-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                             USS945033-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-MAR-1994;
                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                    AAY31075;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yen RCK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                        RESULT 2
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The inevntion relates to a method for detecting magnesium binding defects. The method comprises quantitating a tachykinin C-terminal Phatapatola (e.g., AMB23025) and its degradation products (e.g., AMB23026) in blood using an antibody specific for the generalises mammalian tachykinin C-terminal pentapeptide Phe-(Phe/Val)-Gly-Leu-Met-NH2 (AAB23028). The method is useful for detecting cellular magnesium binding defects which are associated with abnormal physiological states such as sodium-sensitive essential hypertension and type 2 diabetes mellitus. The present sequence represents the C-terminal 4 amino acids of the tachykinin Substance P (AAB23027) from human and rat. This is a degradation product of the Substance P C-terminal pentapeptide (AAB23025) and may also be assayed according to the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detecting magnesium binding defects associated with abnormal physiological states such as sodium-sensitive essential hypertension and type 2 insulin-resistant diabetes mellitus, comprises measuring a specific pentapeptide in blood.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                             Substance P; tachykinin; human; rat; magnesium binding defect; sodium sensitive essential hypertension; insulin resistance; type 2 diabetes; antibody; immunoassay; quantification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ó
                                                                Human/rat tachykinin Substance P C-terminal tetrapeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 100.0%; Score 21; DB 3; Length 4; Similarity 100.0%; Pred. No. 1.8e+06; 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                  /note= "C-terminal amide"
                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 5; 21pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAY67577 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                             10-MAR-1999; 99US-00265690
                                                                                                                                                                                                                                                                                                                                             09-MAR-2000; 2000WO-US003707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-587457/55.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                               Key
Modified-site
                                                                                                                                                                                                                                                                             WO200054053-A1.
                                                                                                                                                                                                                                                                                                                                                                                                             (WELL/) WELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 4 AA;
                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                14-SEP-2000.
                                                                                                                                                                                   Rattus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Wells IC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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Matches
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AAY67577
ID AAY6
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Local Similarity es 4; Conserv

Best Loca Matches

Thibaudeau K;

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The present invention describes a modified therapeutic peptide (I)

comprising a therapeutically active amino acid region (III) and a

cactive group (II) (e.g. succinimidyl and maleimido groups) attached to

a less therapeutically active amino acid region (IV), which covalently

conds with amino/hydroxyl/thiol groups on blood components to form a

peptidase stabilised therapeutic peptide composed of 3-50 amino acids.

(I) are useful for modifying therapeutic peptides e.g. hormones, growth

cactors and neurotransmitters, to protect them from peptidase activity in

vivo for the treatment of various disorders. Endogenous therapeutic

peptides are not suitable as drug candidates as they require frequent

administration due to rapid degradation by peptidases in the body.

Modifying and attaching therapeutic peptides to albumin prevents or

reduces the action of peptidases to increase length of activity (half

IIfe) and specificity as bonding to large molecules decreases

intracellular uptake and interference with physiological processes.

AAB90829 to AAB92441 represent peptides which can be used in the

exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wound healing; insulin-like growth factor-I; tear; abrasion; skin ulcer; surgical incision; burn.
                                                                                                                                                                                                                                                                                                         Modifying and attaching therapeutic peptides to albumin prevents peptidase degradation, useful for increasing length of in vivo activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 21; DB 4; Length 4; 100.0%; Pred. No. 1.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Substance P analog used in wound healing treatment#14.
                                                                                                                                                                                                                        Bridon DP, Ezrin AM, Milner PG, Holmes DL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                   Disclosure, Page 402; 733pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABB10091 standard; peptide; 4 AA
                                                                                                99US-0134406P.
99US-0153406P.
99US-0159783P.
                                                         L7-MAY-2000; 2000WO-US013576.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-AUG-2001; 2001WO-JP006933.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-AUG-2000; 2000JP-00242489.
28-NOV-2000; 2000JP-00361388.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4; Conservative
                                                                                                                                                                                 (CONJ-) CONJUCHEM INC.
                                                                                                                                                                                                                                                              WPI; 2001-112059/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 FGLM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Inidentified.
                                                                                                  17-MAY-1999;
                                                                                                                   10-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-FEB-2002.
                   23-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABB10091.;
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ABB10091
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention provides a pharmaceutical and/or veterinary formulation that comprises 2 -30% of active agents which include a gonadotropinreleasing hormone (GRRH) agonist, 0.5 - 20% of a pore-forming agent which is not lecithin, and the remainder stearin. The formulation is useful as a sustained release implant which can deliver the active agent for a period of 7 days to 2 years. Sequences AAX67573-578 represent P antagonist peptides used in the composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bioimplant formulation for sustained delivery of an active agent over 7 days to 2 years, comprises active agent, pore-forming agent and stearin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino; hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                                                                     Pharmaceutical, veterinary, gonadotropin-releasing hormone, GnRH_j pore-forming agent; lecithin, stearin, P antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 21; DB 3; Length 4; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                /note= "C-terminal amide"
                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fachykinins peptide SEQ ID NO:623.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rathjen DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 20; Page 21; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB91447 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                          99WO-AU000585.
                                                                                                                                                                                                                                                                                                                                                                                                                                   98AU-00004730
                                                                                                                                                                                                                                                                                                                                                                                                                                                    98AU-00004731
                                        19-MAY-2000 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Conservative
                                                                             P antagonist peptide #5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Trigg TE, Walsh JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-182528/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (PEPT-) PEPTECH LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 FGLM 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4 AA;
                                                                                                                                                                                                                                                                                                         WO200004897-A1
                                                                                                                                                                                                                                                                                                                                                                                        20-JUL-1999;
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Modified-site
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13-MAY-1999;
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                                                                                                                                                                                 Jnidentified
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AAB91447;

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RESULT 5 AAB91447

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C This invention relates to novel therapeutic compounds and methods used for for treating mammals with disorders such as salt-insensitive hypertension. The monopeptide compounds of the invention are derived from butadienes, ethylenes and propanes. The compounds of the invention are used to correct a defect in magnesium binding within the plasma membranes of somatic cells which results in a decrease in the intracellular concentration of magnesium ions. These compounds may be used in the sensitive (particularly hypertension), insulin resistance of type 2 diabetes mellitus and pre-eclampsia/eclampsia. The compounds of the compounds may be used in the sensition have an advantage over prior art compounds in that these compounds are biologically stable. The present sequence represents the a tetrapeptide from the C terminal sequence of tachykinin known as competed to the peptide is sufficient to correct the magnesium binding
                                                                                                                                                                                                                                                                                                                                     Similarity 100.0%; Score 21; DB 5; Length 4; Similarity 100.0%; Pred. No. 1.8e+06; 4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               High activity minimal IGF-1-derived peptide fragment #10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADE94198 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                      Sequence 4 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                           1 FGLM
                                                                                                                                                                                                                                                                                                                                                                                                                                         1 FGLM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADE94198;
                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                       Matches
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                       8$8888888888888888888
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                                                                                                                                                                                                                                         The invention relates to skin wound healing promoters, containing substance P analogs or their pharmaceutically-acceptable salts, and insulin-like growth factor-I as the active ingredient. The promoters are for treating wounds like tears, abrasions, surgical incisions, or skin ulcers and burns. The current sequence represents a substance P analog for use in wound healing treatment
                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tachykinin; substance P; hypertension; hypotensive; antidiabetic; gynaecological; salt-insensitive hypertension; magnesium binding; insulin resistance; type 2 diabetes mellitus; pre-eclampsia; eclampsia.
                                                                                                                    Skin wound healing promoters or skin epidermal extension promoters containing substance P analogs and insulin-like growth factor-I for treating wounds like tear, abrasion, surgical incision, skin ulcers
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 21; DB 5; Length 4; 100.0%; Pred. No. 1.88+06; ive 0; Mismatches 0; Indels
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/note= "C terminal-amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tachykinin N -terminal tetrapeptide.
                                                         Nakamura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                        Claim 3; Page 11; 20pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MAGN-) MAGNESIUM DIAGNOSTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAU77846 standard; peptide; 4 AA.
(SANT ) SANTEN PHARM CO LTD. (NISH/) NISHIDA T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-AUG-2000; 2000US-00635266.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-AUG-2001; 2001WO-US024909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         4; Conservative
                                                 Nishida T, Nakata K,
                                                                                    WPI; 2002-269153/31
                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
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FGLM 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 FGLM 4
                                                                                                                                                                                                                                                                                                                                                                   Sequence 4 AA;
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AAU77846;

RESULT 7

Query Match

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Novel peptides based on minimum activity expression units of insulin-like growth factor-1, applicable in remedies in ophthalmology and dermatology for treating keratic injury and promoting wound healing in skin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to the determination of the smallest peptide fragment of insulin growth factor 1 (IGF-1) with the highest activity for use in ophthalmology and dermatology. The peptides are applicable in remedies in ophthalmology and dermatology for treating keratic injury and
ophthalmological, dermatological, vulnerary; insulin growth factor 1; IGF-1; ophthalmology; dermatology; keratic injury; wound healing; skin; corneal ulcer; exofoliation of corneal epithelium; keratitis; dry eye; scratch; surgical cutting; skin ulcer; burns.
                                                                                                                                                                                                                                                                                                                                                    /note= "amidated C-terminus"
                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 18; 25pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nishida T, Inui M, Nakamura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-DEC-2002; 2002WO-JP012632.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-DEC-2001; 2001JP-00368103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SANT ) SANTEN PHARM CO LTD. (NISH/) NISHIDA T.
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New monopeptides derived from butadienes, ethylenes and propanes are magnesium binding defect antagonists, useful in the treatment of e.g. hypertension, insulin resistance of type 2 diabetes mellitus and

Wells IC;

Disclosure, Page 2; 38pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Assessing predisposition to physiological disorder associated with magnesium binding defect in individual, by measuring level of amidated peptides associated with magnesium binding defect in sample and comparing
promoting wound healing in the skin. The keratic injury is particularly corneal ulocr, exofoliation of corneal epithelium, keratitis or dry eye. The skin wound can be scratches, surgical cutting, skin ulcer, or burns. This sequence represents one of the peptides of the invention with IGF-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              physiological disorder; preeclampsia; pregnancy; salt-sensitive essential hypertension; type 2 diabetes mellitus; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method of assessing a predisposition to a
                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Magnesium binding defect; MgBD; MgBD binding defect peptide mimetic;
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                                                                                                                                                                                                          100.0%; Score 21; DB 7; Length 4; 100.0%; Pred. No. 1.8e+06; ive , 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human magnesium binding defect (MgBD) peptide mimetic #2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADR43772 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-AUG-2000; 2000US-00635266.
24-JAN-2002; 2002US-00053669.
29-AUG-2002; 2002US-00230133.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-00265690
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                                                                                                                                                                              Query Match
Best Local Similarity 100..
Loc 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-625105/60
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                                                                                                                                                                                                                                                                                                                    1 FGLM 4
                                                                                                                                                                                                                                                                                                                                                                  FGLM 4
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                                                                                                                                                           Sequence 4 AA;
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                                                                                                       activity
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ADR43772
ADR43772
ADR43772
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peptide after treatment, where a significant increase in the level of the monoclonal antibody that specifically binds to a peptide or its peptide monoclonal antibody that specifically binds to a peptide or its peptide or minetic. a prognosis reagent for determining the presence of a magnesium binding defect, generating a deficit of plasma membrane tightly bound magnesium ion in mammalian somatic cells involving obtaining a sample of body fluid by centrifigation, resuspending the somatic cells from the body fluid by centrifigation, resuspending the somatic cells from the body fluid by centrifigation, resuspending the somatic cells from the body fluid by centrifigation, resuspending the somatic cells from the sample of the somatic cells and repeating the removing and mesuring steps at of the somatic cells and repeating the removing and mesuring steps at of subsequent times until the level of tightly bound magnesium is significantly reduced and the somatic cells from the plasma membrane of mammalian somatic cells and repeating the removing and mesuring subsequent in a physiological medium including magnesium in a physiological medium including magnesium ion, adding a substance to be tested to the suspension and measuring the level of the substance to be tested to the suspension and measuring the level of the substance to be tested to be undicative of promotion of the substance to be tested to the suspension and measuring the level of the indicative of promotion of binding by the substance which promotes tinvolving administering to the individual a substance which promotes translanding of tightly bound magnesium in the level of plasma membrane of the somatic cells indicative of promotion of binding by the substance which promotes translanding of tightly bound magnesium into to the plasma membrane of the individual and somatic cells. The method substance which promotes binding defect in an individual, where the disorder is a predisposition to a physiological disorder associated with the magnesium membrane individual
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Best Local Similarity
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03-OCT-2002
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The cpds. of the invention inhibit protein phosphorylation. The inventors claim a process for inhibiting the growth of tumour cells in a medium which comprises contacting the cells with a cpd. of formula (AAP61654-P61661) or a physiologically acceptable salt. (Updated on 03-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This peptide is useful as part of a peptide/halo-methyl ketone cpd., for treating picornavirus, egpolio- or rhinovirus infections. It inhibits the processing of picornavirus capsid proteins by virus encoded proteases. See AAP71302-13. See also US4622552. (Updated on 25-MAR-2003 to correct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Treating picorna-virus infection with peptide halo.methyl ketone cpds.
esp. for treating polio virus and rhino virus infections.
                                                                                                              tumour cell growth - using peptide and aminoacid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide component of cpd. for treating picornavirus infections.
                                                                                                                                                                                                                                                                           Score 18; DB 1; Length 4;
Pred. No. 1.8e+06;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Picornaviridae; poliovirus; rhinovirus; antiviral agent.
                                           Ε 1.
                                   (DUPO ) DU PONT DE NEMOURS & CO
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               83US-00552255.
                                                                                                                                                Claim 1; Col 4; 9pp; English.
                                                                                                                                                                                                                                                                         h 85.7%;
Similarity 75.0%;
3; Conservative
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(first entry)
                                                                                                                         halo:methyl ketone(s).
                                                             Kettner CA, Racker E;
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                                                                                   WPI; 1986-118872/18.
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                                                                                                                                                                                                                                                                                    Local Similarity
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1 FGLL 4
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                                                                                                            Inhibition of
                                                                                                                                                                                                                                                 Sequence 4 AA;
             16-NOV-1983;
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15-MAY-1991
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Matches
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Sequence 4 AA;

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The inventors

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                                                                                                                                                                                                                                  Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye;
keratitis; insulin like growth factor-1; IGF-1; eye drop.
                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ophthalmic drug composition containing tetra:peptide - is useful as corneal disorder remedy for corneal ulcer, corneal epithelial peeling, dry eye, keratitis.
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  Score 18; DB 1; Length 4;
Pred. No. 1.8e+06;
1; Mismatches 0; Indels
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Pred. No. 1.8e+06;
1; Mismatches 0; Indels
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                                                                                                                                  AAW41686 standard; peptide; 4 AA.
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  85.7%;
ilarity 75.0%;
Conservative
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                                                                                                                                                                                    (first entry)
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             Similarity 3; Conserv
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Matches 3; Conserv
                                                1 FGLM 4
                                                                         4
                                                                                                                                                                                                            Tetrapeptide #3.
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1 YGLM 4
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Modified-site
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                                                                                                                                                                                    09-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                               11-JUN-1997;
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Query Match
Best Local S:
Matches
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                                                                                                            RESULT 12
AAW41686
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21-FEB-2002

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The cpds. of the invention are useful in diagnosis of infectious diseases caused by viruses which encode a specific protease e.g. picornaviruses. (Updated on 0-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.)
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                /note= "Bonded to a chromogenic, fluorogenic, chemiluminescent, radioactive, antigenic, or haptenic indicator arono."
                                                                                                                                                                                                                                                                                                                               Peptide substrates for virus-specified protease(s) - with C-terminal indicator gp. linked by amide or ester linkage.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         76.2%; Score 16; DB 1; Length 4; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
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                                                    indicator group.
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Best Local Similarity 100.00
Best Local Similarity 3; Conservative
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(first entry)
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Misc-difference
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                                                                                                                                                       LO-JAN-1986;
                                                                                                                                                                                         11-JAN-1985;
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                                                                                                                                                                                                                                                            Kettner CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
15-MAY-1991
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US4636492-A
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                                                                                    EP187721-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAP71312;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "bonede to Boc, Z, Suc, or MeOSuc; Z=carbobenzoxy;
Boc=t-Butyloxycarbonyl; Suc=Succinyl;
MeOSuc=Methoxysuccinyl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to skin wound healing promoters, containing substance P analogs or their pharmaceutically-acceptable salts, and insulin-like growth factor-I as the active ingredient. The promoters are for treating wounds like tears, abrasions, surgical incisions, or skin ulcers and burns. The current sequence represents a substance P analog for use in wound healing treatment
                                                                         Wound healing; insulin-like growth factor-1; tear; abrasion; skin ulcer; surgical incision; burn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Skin wound healing promoters or skin epidermal extension promoters containing substance P analogs and insulin-like growth factor-I for treating wounds like tear, abrasion, surgical incision, skin ulcers or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence located immediately adjacent to and upstream of the cleavage site within a virus-specified polypeptide precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                Substance P analog used in wound healing treatment#15.
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Pred. No. 1.8e+06;
1; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 4; 20pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                   Nakamura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAP61707 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                         10-AUG-2000; 2000JP-00242489.
28-NOV-2000; 2000JP-00361388.
                                                                                                                                                                                                                                          10-AUG-2001; 2001WO-JP006933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   85.7%;
llarity 75.0%;
Conservative
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                26-JUL-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                 Nishida T, Nakata K,
                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-269153/31
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1 YGLM 4
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Misc-difference
                                                                                                                                                                     WO200213853-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 4 AA;
                                                                                                                                     Unidentified.
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25-MAR-2003 03-OCT-2002 08-JUN-1991

AAP61707;

RESULT 14

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Query Match Best Loc Matches Synthetic

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Gaps

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X888888888

This peptide is useful as part of a peptide/halo-methyl ketone cpd., for treating picornavirus, egpolio- or rhinovirus infections. It inhibits the processing of picornavirus capsid proteins by virus encoded proteases. See AAP71301-11 and AAP71313. See also US4652552. (Updated on 25-MAR-2003 to correct PA field.) Sequence 4 AA;

Query Match 76.2%; Score 16; DB 1; Length 4; Best Local Similarity 100.0%; Pred. No. 1.8e+06; Matches 3; Conservative 0; Mismatches 0; Indels 1 FGL 3 ||| 1 FGL 3 ò g

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0; Gaps

Search completed: March 23, 2005, 15:12:55 Job time : 167 secs

	Ltd.
5.1.6	Compugen
version	- 2005
GenCore	(c) 1993
	Copyright

OM protein - protein search, using sw model

March 23, 2005, 15:13:04; Search time 137 Seconds (without alignments) 9.667 Million cell updates/sec Run on:

SEQ3 21 1 fglm 4 Title: Perfect score:

Sequence:

BLOSUM62 Scoring table:

Gapop 10.0 , Gapext 0.5

9312 Total number of hits satisfying chosen parameters:

1407402 seqs, 331100923 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 4

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Published Applications AA:\* Database :

| Cgn2\_6/ptodata/1/pubpaa/US07 PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US07 PUBCOMB.ppp:\*
| Cgn2\_6/ptodata/1/pubpaa/US06 NEW PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US06 NEW PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US07\_NEW PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
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| Cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_NEW PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US09\_NEW PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*
| Cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 2, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 2, Appli	Sequence 9, Appli	Sequence 270, App	Sequence 2, Appli	Sequence 2, Appli	Sequence 8, Appli	Sequence 328, App	Sequence 98, Appl
ID	US-09-265-690C-2	US-10-230-133-3	US-10-053-669-2	US-10-695-536-3	US-10-805-881-2	US-10-497-628-2	US-09-879-442A-9	7 US-10-821-240A-270	US-10-230-133-2	US-10-695-536-2	US-09-879-442A-8	US-10-137-867-328	US-09-879-442A-98
DB	6	14	14	16	16	17	σ	17	14	16	σ	12	σ
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% Query Match	100.0	100.0	100.0	100.0	100.0	100.0	76.2	76.2	71.4	71.4	66.7	66.7	61.9
Score	21	21	21	21	21	21	16	16	15	15	14	14	13
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US-09-879-442A-99	118-10-543-123-24	US-10-087-942-30	US-10-087-402-10	4	US-10-196-394-98	US-10-202-824-11	US-10-359-363A-104	0-712-	$\mathbf{c}$	US-10-255-679-3	US-10-208-018-6	US-10-104-307-3	US-08-484-409-14	US-08-484-409-25	US-09-804-733A-24	US-09-803-126-20	US-09-726-470A-29	US-09-563-222-1	US-09-811-945-15	US-10-007-761-62	US-10-044-034-1	ᅻ	US-10-076-421-3	US-10-087-905-14	-10-087-	US-10-255-679-2	US-10-255-679-5	US-10-255-679-11	9	0	
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Sequence 2, Application US/09265690C

Sequence 2, Application US/09265690C

Publication No. US2010051345A1

GENERAL INFORMATION:
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mac

TITLE OF INVENTION: for Disease Diagnosis

FILE REFERENCE: 1427001

CURRENT APPLICATION NUMBER: US/09/265,690C

CURRENT PILING DATE: 1999-03-10

NUMBER OF SEQ ID NOS: 4

SOFTWARE: Patentin version 3.0

SEQ ID NO 2 TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

LOCATION: (4) ... (4)

OTHER INFORMATION: AMIDATION
US-09-265-690C-2 US-09-265-690C-2 LENGTH:

ALIGNMENTS

; 0 100.0%; Score 21; DB 9; Length 4; 100.0%; Pred. No. 1.3e+06; tive 0; Mismatches 0; Indels Query Match
Best Local Similarity 100.
Matches 4; Conservative

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Gaps

1 FGLM 4 ઠે 임 RESULT 2 US-10-230-133-3 Sequence 3, Application US/10230133 ; Publication No. US20030040625A1

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Gaps

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US-10-805-801-2

Sequence 2, Application US/10805881

Sequence 2, Application No. US20040171093A1

Sequence 2, Application No. US20040171093A1

SEQUENCEANT: Wells, IDert C.

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound

TITLE OF INVENTION: Magnesium for Disease Diagnosis

TITLE OF INVENTION: Magnesium for Disease Diagnosis

FILE REFERENCE: 800812-0005

CURRENT APPLICATION NUMBER: US/10/805,881

PRIOR APPLICATION NUMBER: US 10/053,669

PRIOR APPLICATION NUMBER: US 10/053,669

PRIOR APPLICATION NUMBER: US 10/053,669

PRIOR APPLICATION NUMBER: US 10/695,536

NUMBER OF SEQ ID NOS: 4

SEQ ID NO 2

LENGTH: 4
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APPLICANT: Masatsugu Nakamura
TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
FILE REFERENCE: 04355/HG
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100.0%; Pred. No. 1.3e+06;
iive 0; Mismatches 0;
                             CURRENT APPLICATION NUMBER: US/10/695,536
CURRENT FILING DATE: 2003-10-28
PRIOR APPLICATION NUMBER: US 10/230,133
PRIOR FILING DATE: 2002-08-29
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SEQ ID NO 3
LENGTH: 4
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Publication No. US20050009752A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
FEATURE:
NAMMEKEX: MOD RES
LOCATION: (4) ... (4)
OTHER INFORMATION: AMIDATION
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; OTHER INFORMATION: AMIDATION
US-10-805-881-2
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 4; Conserv
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Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                  TYPE: PRT
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                                    TITLE OF INVENTION: Anagonists of the magnesium binding defect as therapy agents and TITLE OF INVENTION: Anagonists of the magnesium binding defect as therapy agents and TITLE OF INVENTION: methods for treatment of abnormal physiological states CURRENT APPLICATION WIMBER: US/10/230,133
CURRENT FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: 09/635,266
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Wells, ibert
TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
TITLE OF INVENTION: for Disease Diagnosis
FILE REPRENCE: N1427-005
GURRENT APPLICATION NUMBER: US/10/053,669
CURRENT APPLICATION NUMBER: 09/265,690
RRIOR APPLICATION NUMBER: 09/265,690
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
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TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents
TITLE OF INVENTION: and Methods for Treatment of Abnormal Physiological States
FILE REFERENCE: 800812-0008
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100.0%; Score 21; DB 14; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels
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100.0%; Pred. No. 1.3e+06;
iive 0; Mismatches 0;
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Publication No. US20030077658A1
GENERAL INFORMATION:
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Sequence 3, Application US/10695536
Publication No. US20040110692A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                   ; NAME/KEY: MOD.RES
; LOCATION: (4)...(4)
; OTHER INFORMATION: AMIDATION
US-10-230-133-3
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LOCATION: (4)...(4)
OTHER INFORMATION: AMIDATION
US-10-053-669-2
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Best Local Similarity 100.
Matches 4; Conservative
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ORGANISM: Homo sapiens
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ORGANISM: Homo sapiens
GENERAL INFORMATION:
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US-10-053-669-2
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Gaps

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JS-10-821-240A-270
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OTHER INFORMATION: Description of Artificial Sequence: Synthetic
NAME/KEY: SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
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                                                                                                                                                                                                                                                                                    100.0%; Score 21; DB 17; Length 4; 100.0%; Pred. No. 1.3e+06;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Lewis, Evan
APPLICANT: Lewis, Evan
APPLICANT: Nieder, Matthew H.
APPLICANT: Pickford, Lesley B.
APPLICANT: Pickford, Lesley B.
APPLICANT: Trouet, Andre
APPLICANT: Yarranton, Geoffrey T.
TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
FILE. REPERENCE: COUL-015/02/02
CURRENT APPLICATION NUMBER: US/09/879,442A
CURRENT PILING DATE: 2001-06-11
                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/290,448
PRIOR PLILAG DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/211,887
PRIOR FILING DATE: 2000-06-14
PRIOR FILING DATE: 1999-12-10
PRIOR PAPLICATION NUMBER: 60/119,312
PRIOR PAPLICATION NUMBER: 60/119,312
PRIOR PAPLICATION NUMBER: 60/111,793
PRIOR APPLICATION NUMBER: 60/111,793
PRIOR PRIOR DATE: 1999-02-08
PRIOR PELING DATE: 1998-12-11
PRIOR FILING DATE: 1998-12-11
PRIOR FILING DATE: 1998-12-11
PRIOR FILING DATE: 1098-12-11
CURRENT APPLICATION NUMBER: US/10/497,628
CURRENT FILING DATE: 2004-06-03
PRIOR APPLICATION NUMBER: JP 2001-368103
PRIOR FILING DATE: 2001-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9, Application US/09879442A Patent No. US20020142955A1
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Fernandez, Anne Marie
Gangwar, Sanjeev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (1)
; OTHER INFORMATION: Beta-Alanine
US-09-879-442A-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: CORIXA CORPORATION
                                                                                         NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                    4; Conservative
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Best Local Similarity
Matches 3; Conserv
                                                                                                                                                                                                                                                                                 Ouery Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                             1 FGLM 4
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                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Human
US-10-497-628-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS-09-879-442A-9
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RESULT 8

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FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: derivative peptide based on mail of the content information of 
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Sequence 2, Application US/2003040625A1

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wells, Ibert
TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and TITLE OF INVENTION: methods for treatment of abnormal physiological states
FILE REFERENCE: 2892-106
FILE REFERENCE: 2002-08-29
FRIOR APPLICATION NUMBER: US/10/230,133
CURRENT FILING DATE: 2000-08-29
FRIOR APPLICATION NUMBER: 09/635,266
FRIOR APPLICATION NUMBER: 2000-08-09
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Sequence 270, Application US/10821240A
Publication No. US20050037430A1
GENERAL INPORMATION:
APPLICANT: Khan, Nisar A.
TITLE OF INVENTION: Gene regulator
FILE REFERENCE: 2183-5223US
CURRENT APPLICATION NUMBER: US/10/028,075
PRIOR FILING DATE: 2001-12-21
PRIOR FILING DATE: 2001-12-21
PRIOR FILING DATE: 2001-110-04
NUMBER OF SEQ ID NOS: 312
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
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| NAME/KEY: MOD RES |
| LOCATION: (3) ...(3) |
| COTHER INFORMATION: AMIDATION US-10-230-133-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 100.
Matches 3; Conservative
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Best Local Similarity 100.
Matches 3; Conservative
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 FGL 3
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APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P3330R1C146

CURRENT APPLICATION NUMBER: US/10/137,867

CURRENT FILING DATE: 2002-05-03

Prior Application removed - See Palm or File Wrapper

SEQ ID NO 328

LENGTH: 379
                                Score 14; DB 9; Length 4;
Pred. No. 1.3e+06;
1; Mismatches 0; Indels
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APPLICANT: Lobl, Thomas J.
APPLICANT: Lobl, Thomas J.
APPLICANT: Pickford, Lesley H.
APPLICANT: Trouet, Andre A
APPLICANT: Trouet, Andre A
APPLICANT: Trouet, Andre Caffrey T.
ITILE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
FILE REPRESENCE: COUL-015/02US
CURRENT APPLICATION NUMBER: US/09/879,442A
CURRENT FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 60/290,448
                                                                                                                                                                                                                                                                                   Sequence 328, Application US/10137867
Publication No. US20030207349A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 98, Application US/09879442A
Patent No. US20020142955A1
GENERAL INFORMATION:
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Gangwar, Sanjeev
Lewis, Evan
                              66.7%;
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Gerritsen, Mary E.
Goddard, Audrey
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Watanabe, Colin K
                      Query Match
Best Local Similarity 66.7
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Godowski, Paul J.
Gurney, Austin L.
Sherwood, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                   Desnoyers, Luc
Filvaroff, Ellen
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Best Local Similarity 66.7
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-867-328
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            TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents FILE OF INVENTION: and Methods for Treatment of Abnormal Physiological States CURRENT APPLICATION NUMBER: US/10/695,536

CURRENT APPLICATION NUMBER: US/10/695,536

PRIOR APPLICATION NUMBER: US 10/230,133

PRIOR APPLICATION NUMBER: US 09/635,266

PRIOR APPLICATION NUMBER: US 09/635,266

NUMBER OF SEQ ID NOS: 4

SOFTWARE: Patentin Version 3.2

SEQ ID NO 2

SEQ ID NO 2
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US-09-879-442A-8
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AND CORRECTION

CORINGA CORPORATION

CORINGA CORPORATION

Dubois, Vincent

F. Gangar, Sanjeev

ANT: Lewis, Evan

ANT: Lewis, Evan

ANT: Lewis, Bran

CONT: Pickford, Lealey B.

ANT: Trouet, Andre

LICANT: APPLICATION NUMBER: 60/290,448

PRIOR PILING DATE: 2001-06-11

PRIOR PILING DATE: 1999-12-10

PRIOR PILING DATE: 1999-12-11

NUMBER OF SEQ ID NOS: 103

PRIOR PILING DATE: 1998-12-11

NUMBER OF SEQ ID NOS: 103

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TON: Descript'
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100.0%; Pred. No. 1.30+06;
tive 0; Mismatches 0;
     Clifton
                                                                                                                                                                                                                                                                                                                                                                                                     ; NAME/KEY: MOD_RES
; LOCATION: (3)...(3)
; OTHER INFORMATION: AMIDATION
US-10-695-536-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 3; Conservative
APPLICANT: Wells, Ibert
                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 GLM 4
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NAME/KEY: SITE
LOCATION: (1)
COTHER INFORMATION: 2-Thienylalanine
US-09-879-442A-98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence: Synthetic LOCATION: (1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 61.9%; Score 13; DB 9; Length 4; Best Local Similarity 66.7%; Pred. No. 1.3e+06; Matches 2; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: YEARTON, Geoffrey T.
TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
FILLE REPERENCE; COUL-015/02UB
CURRENT APPLICATION NUMBER: US/09/879,442A
CURRENT APPLICATION NUMBER: 00/10-06-11
PRIOR APPLICATION NUMBER: 60/20,448
PRIOR FILING DATE: 2001-05-11
PRIOR FILING DATE: 2000-06-14
PRIOR FILING DATE: 2000-06-14
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-02-08
PRIOR FILING DATE: 1999-02-08
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-11
NUMBER OF SEQ ID NOS: 103
SOSTWARE: PATENTIN VET. 2.1
PRIOR FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/211,887
PRIOR PILING DATE: 2000-06-14
PRIOR FILING DATE: 1000-06-14
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-10
PRIOR APPLICATION NUMBER: 60/119,312
PRIOR FILING DATE: 1999-02-08
PRIOR FILING DATE: 1998-12-11
NUMBER OF SEQ ID NOS: 103
SOFTWARE: PATENTIN VEY: 2.1
SEQ ID NO 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-09-879-442A-99
; Sequence 99, Application US/09879442A
; Sequent vo. US200142955A1
; GENERAL INFORMATION:
; APPLICANT: CORIXA CORPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dubois, Vincent
Fernandez, Anne Marie
Gangwar, Sanjeev
Lewis, Evan
Lobl, Thomas J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nieder, Matthew H.
Pickford, Lesley B.
                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :||
2 YGL 4
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GENERAL INFORMATION:

APPLICANT: CHANG, Y-H

APPLICANT: CHANG, Y-H

APPLICANT: WICKA, W.S.

TITLE OF INVENTION: O "Mechal" and Clinical Uses Therefor

TITLE OF INVENTION: 2 ("Mechal") and Clinical Uses Therefor

TITLE OF INVENTION: 2 ("Mechal") and Clinical Uses Therefor

TITLE OF INVENTION: 2 ("Mechal") and Clinical Uses Therefor

TITLE OF INVENTION: 2001-08-30

CURRENT APPLICATION NUMBER: US/09/943,123

CURRENT APPLICATION NUMBER: 2.0

SOFTWARE: PATENTIN O'S: 2.0

SOFTWARE: PATENTIN O'S: 2.0

SOFTWARE: PRT

TYPE: PRT

TYPE: PRT

CORGANISM: Artificial Sequence

FRATURE:

COTHER INFORMATION: Description of Artificial Sequence: synthetic
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Score 13; DB 9; Length 4; Pred. No. 1.3e+06; 1; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 61.9%; Score 13; DB 9; Length 4; Best Local Similarity 66.7%; Pred. No. 1.3e+06; Matches 2; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Search completed: March 23, 2005, 15:25:39 Job time : 138 secs
                                                                                                                                                                                                       RESULT 15
US-09-943-123-24
Sequence 24, Application US/09943123
; Publication No. US20020182701A1
61.9%;
Query Match
Best Local Similarity 66.7
Matches 2; Conservative
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1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
                        GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                    513545 segs, 74649064 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                                                              OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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21
1 fglm 4
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Title: Perfect score: Sequence:

Run on:

Scoring table:

Searched:

Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description		63	Sequence 2, Appli	'n	3,	80,	124	20,	7	ď	œ`	4,	25,	25,	37,	9	Ξ,	26,	37,	31,	, 0,	37,	4	'n	'n	9	Sequence 58, Appl
SUMMARIES	ID	US-08-441-591-63	US-08-303-362A-63	US-09-265-690C-2	US-09-635-266-3	US-10-230-133-3	PCT-US95-05600-80	US-08-747-137-124	US-08-722-126A-20	635-266-	US-10-230-133-2	US-08-070-301-8	US-08-433-401-4	US-08-793-701-25	US-09-579-264-25	US-08-429-964-37	US-08-812-586-60	US-08-669-656A-11	US-09-535-832A-56	US-09-665-362A-31	US-09-665-637-31	US-10-087-402-10	PCT-US93-08062-37	US-08-343-943-4	US-09-060-455-2	US-09-150-621-3	US-10-121-857-6	US-07-657-769B-58
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	Length	4	4	4	4	4	4	4	4	m	m	4	4	4	4	4	4,	4	4	4	4	4	4	e	Ю	e	e	4
de	Query	100.0	100.0	100.0	100.0	100.0	100.0	76.2	76.2	71.4	71.4	71.4	71.4	66.7	66.7	61.9	61.9	61.9	61.9	61.9			61.9	57.1	57.1	57.1	57.1	57.1
	Score	21	21	21	21	21	21	16	16	15	15	15	15	14	14	13	13	13	13	13	13	13	13	12	12	12	12	12
	Result No.	-	7	m	4	2	9	7	80	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

Sequence 3, Appli Sequence 7, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 3, Appli Sequence 3, Appli Sequence 11, Appli Sequence 11, Appli Sequence 108, Appli Sequence 108, Appli Sequence 108, Appli Sequence 11, Appli Sequence 11, Appli Sequence 10, Appli Sequence 11, Appli Sequence 11, Appli Sequence 10, Appli		
28 12 57.1 4 1 US-07-822-924-3 30 12 57.1 4 1 US-07-822-924-5 31 12 57.1 4 1 US-07-822-924-7 31 12 57.1 4 1 US-08-285-777-1 32 12 57.1 4 1 US-08-147-270A-1 34 12 57.1 4 1 US-08-147-270A-1 35 12 57.1 4 1 US-07-969-307A-2 36 12 57.1 4 1 US-07-969-307A-1 37 12 57.1 4 1 US-08-127-904-11 38 12 57.1 4 1 US-08-127-904-11 39 12 57.1 4 1 US-08-127-91 40 12 57.1 4 1 US-08-429-138-10 41 12 57.1 4 1 US-08-429-138-10 42 12 57.1 4 1 US-08-549-108 43 12 57.1 4 1 US-08-549-108-10 44 12 57.1 4 1 US-08-549-108-10 45 12 57.1 4 1 US-08-549-108-10 46 12 57.1 4 1 US-08-549-108-10 47 12 57.1 4 1 US-08-549-108-10 48 12 57.1 4 1 US-08-725-28-20 49 1 US-08-77-25-28-20 41 US-08-77-25-28-20	RESULT 1  US-08-441-591-63  US-08-441-591-63  Sequence 63, Application US/08441591  Patent No. 5637682  GENERAL INCEMPATION: ITILE OF INVENTION: HIGH-AFFINITY  TITLE OF INVENTION: OLIGOMUCLECATIOE LIGANDS  TITLE OF INVENTION: TO THE TACHYKININ  TITLE OF INVENTION: SUBSTANCE PHYKININ  TITLE OF INVENTION: TO THE TACHYKININ  NUMBER OF SEQUENCES: 6  CORRESPONDENCE ADDRESS: ADDRESSER: Swanson & Bratschun, L.L.C. STREET: 8400 E. Prentice Avenue, Suite 200  CITY: Englewood STATE: Colorado CONNTY: USA  COMPUTER: HEM COMPATION: MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage COMPUTER: BADABLE FORM: MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage COMPUTER: WordPerfect 5.1  COMPUTER: WordPerfect 5.1  COMPUTER: WordPerfect 5.1  CURRENT APPLICATION NATE: APPLICATION NUMBER: US/08/441,591  FILING DATE: 0.5EPTEMBER-1994  PRIOR APPLICATION NUMBER: 07/714,131  PRIOR APPLICATION NUMBER: 07/714,131  PRIOR APPLICATION NUMBER: 07/931,473  PRIOR APPLICATION NUMBER: 08/117,991  PRIOR APPLICATION NUMBER: 07/931,473  PRIOR APPLICATION NUMBER: 07/934,526  PRIOR APPLICATION NUMBER: 07/934,526  PRIOR APPLICATION NUMBER: 07/934,526	; ATTONEY AGENT INFORMATION: ; NAME: Barry J. Swanson ; REGISTRATION NUMBER: 33,215 ; REFERENCE/DOCKET NUMBER: NEX21/C ; TELECOMMUNICATION INFORMATION:

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TOPOLOGY:
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US-08-303-362A-63
Sequence 63, Application US/08303362A
Sequence 63, Application US/08303362A
Sequence No. 5648214
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: SWARBON & BEAUSCHUN, L.L.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANTE: COLOTRAGO
COUNTRY: COLOTRAGO
COUNTRY: COLOTRAGO
ZIP: 8011
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
OPERATING SYSTEM: MS.DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,362A
FILING DATE: 9-SEPTEMBER-1994
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION NUMBER: 07/714,131
PRIOR APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION NUMBER: 08/117,991
PRIOR APPLICATION NUMBER: 08/117,991
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/556,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA: 07/556,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA: 07/556,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION NUMBER: 07/556,428
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: RATTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 4
                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (303) 793-3433 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                             ; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-441-591-63
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TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Colorado
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Sequence 2, Application US/09265690C

Sequence 2, Application US/09265690C

GENERAL INFORMATION:
APPLICANT: Wells, ibert

APPLICANT: Wells, ibert

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mac

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mac

TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Mac

CURRENT APPLICATION NUMBER: US/09/265,690C

CURRENT FILING DATE: 1999-03-10

NUMBER OF SEQ ID NOS: 4

SEQ ID NO 2

LENGTH: 4

MENTION: METHOD NOS: 4

SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3, Application US/09635266
Patent No. 6455734

TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and FILE REFERENCE: N1427-002
CURRENT APPLICATION NUMBER: US/09/635,266
CURRENT FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
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                                                                       100.0%; Score 21; DB 1; Length 4; 100.0%; Pred. No. 4.1e+05; rive 0; Mismatches 0; Indels
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100.0%; Score 21; DB 4; L
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin version 3.0 SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; NAME/KEY: MOD_RES
; LOCATION: (4)...(4)
; OTHER INFORMATION: AMIDATION
US-09-265-6900-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: MOD RES
LOCATION: (4)...(4)
OTHER INFORMATION: AMIDATION
US-09-635-266-3
                                                             Query Match
Best Local Similarity 100.
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Homo sapiens
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
Matches 4; Conserv
       US-08-303-362A-63
                                                                                                                                                                                                                                                                                   RESULT 3
US-09-265-690C-2
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Gaps
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; Patent No. 5945033
; GENERAL INFORMATION:
    APPLICANT: YEN, Richard C.K.
; TITLE OF INVENTION: NON-CROSSLINKED PROTEIN PARTICLES FOR TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC USE NUMBER OF SEQUENCES: 184
; CORRESPONDENCE ADDRESS:
    ADDRESSE: Townsend and Townsend and Crew LLP STREET: Two Embarcadero Center, 8th Floor CITY: San Francisco
    STATES CANAMERO CONTRACTOR CONTRACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
COMPUTER: TEM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
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Pred. No. 4.1e+05;
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                                                                                      CLASSIFICATION CAPELL STRAINS AND CLASSIFICATION CAPELL CATION DATA:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/301,362

FILING DATE: 21-DECEMBER.1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/117,991

FILING DATE: 08-SEPTEMBER.1994

PRIOR APPLICATION NUMBER: 07/91,473

FILING DATE: 17-AUGUST-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/964,624

FILING DATE: 11-JUNE-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/14,131

FILING DATE: 11-JUNE-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/114,131

FILING DATE: 10-JUNE-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/136,428

FILING DATE: 11-JUNE-1990

APPLICATION NUMBER: 07/136,428

FILING DATE: 11-JUNE-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/536,428

FILING DATE: 11-JUNE-1991

REGISTRATION NUMBER: 07/536,428

FILING DATE: 11-JUNE-1991

REFERENCE/DOCKET NUMBER: 07/536,428

FEFERENCE/DOCKET NUMBER: 07/536,428

FEFERENCE/DOCKET NUMBER: 07/536,428

FEFERENCE/DOCKET NUMBER: 07/536,428

FEFERENCE/DOCKET NUMBER: 07/536,428
08/248,632
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FILING DATE: 24-MAY-1994
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Best Local Similarity 100.
----has 4; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wells, IDert
TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
TITLE OF INVENTION: methods for treatment of abnormal physiological states
TITLE OF INVENTION methods for treatment of abnormal physiological states
TITLE OF INVENTION: Methods for treatment of abnormal physiological states
CURRENT FILE OF INVENTION NUMBER: US/10/230,133
CURRENT FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: 09/635,266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
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| Sequence 80, Application PC/TUS9505600
| GENERAL INFORMATION:
| APPLICANT: GOLD, LARRY
| APPLICANT: WIEDER, MATTHEW
| APPLICANT: WECKER, MATTHEW
| APPLICANT: SCHNEIDER, DANIEL J.
| APPLICANT: SLIEN, PATRICK
| APPLICANT: SULLENGER, BRUCE A.
| APPLICANT: SULLENGER, BRUCE A.
| TITLE OF INVENTION: HIGH-AFFINITY LIGANDS OF
| TITLE OF INVENTION: HIGH-AFFINITY LIGANDS OF
| TITLE OF INVENTION: P, HIV INTEGRASE AND HIV-1 REVERSE TRANSCRIPTASE
| NUMBER OF SEQUENCES: 239
| CONRESPONDENCE ADDRESS: AD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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STREET: 8400 E. Prentice Avenue, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG
MEDIUM TYPE: Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/238,863
FILING DATE: 06-MAY-1994
                                                                                                                                                                                                          Sequence 3, Application US/10230133 Patent No. 6664420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Englewood STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
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                                                                                                                                                                  US-10-230-133-3
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TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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LENGTH: 3
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US-08-722-126A-20

i Sequence 20, Application US/08722126A

i Patent No. 603427

i GENERAL INFORMATION:

APPLICANT: BECHT, Israel

APPLICANT: GUTHANN, Marcelo D.

APPLICANT: TAL, Michael

ITILE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)

CORRESPONDENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.

STREET: 419 Seventh Street N.W., Ste. 300

CTTY: Weahington

STATE: D.C.

COUNTRY: UNITED STATES OF AMERICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           76.2%; Score 16; DB 2; Length 4; 100.0%; Pred. No. 4.1e+05; ive 0; Mismatches 0; Indels
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MEDIUM TYPE: Floppy disk
COMPUTER: Compatible
COMPUTER: Floppy disk
COMPUTER: Patentin Release #1.0, Version #1.30
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/722,126A
CLASSIFICATION: 536
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04258
FILING DATE: 06-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                         016197-000840US
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CTHER INFORMATION: /product= "Met-Amide"
US-08-747-137-124
                              FILING DATE: 12-NOV-1996
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,546
FILING DATE: 14-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/069,831
FILING DATE: 01-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/641,720
FILING DATE: 13-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/641,720
FILING DATE: 15-JAN-1991
ATTORNEY/ACENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
ATTORNEY/ACENT INFORMATION:
TELECOMMUNICATION INFORMATION:
SEQUENCE CHARACTERISTICS:
FINGTH: 4 amino acids
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/747,137
FILING DATE: 12-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 3; Conservative
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Sequence 2, Application US/09635266
Patent No. 6455734
Fatent No. 6455734
Fatent No. 6455734
FAPPLICANT: Wells, Insert
TILE OF INVENTION:
TITLE OF INVENTION: methods for treatment of abnormal physiological states
TITLE OF INVENTION: 002
CURRENT APPLICATION NUMBER: US/09/635,266
CURRENT FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin version 3.0
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Sequence 2, Application US/10230133

Fatent No. 666420

GENERAL HORMATION:

APPLICANT: Wells, Ibert

TITE OF INVENTION: methods for treatment of abnormal physiological states

FILE REFERENCE: 2892-106

CURRENT APPLICATION NUMBER: US/10/230,133

CURRENT FILING DATE: 2002-08-29

PRIOR APPLICATION NUMBER: 09/635,266

PRIOR FILING DATE: 2000-08-09
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                                                                                                                                                              PECHT=1A
PRIOR APPLICATION DATA:

APPLICATION NUMBER: IL 109257
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: PECHT=1
TELECOWINICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEPHONE: (202) 628-5197
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: MOD RES; LOCATION: (3)...(3)
CTHER INFORMATION: AMIDATION
US-09-635-266-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.
Matches 3, Conservative
                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-722-126A-20
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-040
TELEFAX: (202) 835-0605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-433-401-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: GRANOTO, HISCOSH,
APPLICANT: KISHIMOTO, Jiro
APPLICANT: FUGGO, Ohji
APPLICANT: FUGGO, Ohji
TITLE OF INVENTION: ENZYME PARTICIPATING IN C-TERMINAL
TITLE OF INVENTION: AMIDATION, AND METHOD OF PREPARING SAME AND USE THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wegner, Cantor, Mueller & Player, P.C.
                                                                                                                                                                                                                                                                                                                                71.4%; Score 15; DB 4; Length 3; 100.0%; Pred. No. 4.1e+05; rative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: D.C.
COUNTRY: U.S.A.
21P: 20036-8218
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC Compatible
COMPUTER: IEM PC Compatible
COMPUTER: TEM PC COMPATIBLE
COMPUTER: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/070,301
FILING DATE: 24-MAY-1991
CLASSIFICATION DATA:
APPLICATION NUMBER: US 1-209687
FILING DATE: 15-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 1-181933
FILING DATE: 26-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 2-76331
FILING DATE: 26-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 2-106412
FILING DATE: 24-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 2-205475
FILING DATE: 24-APR-1990
PRIOR APPLICATION NUMBER: US 2-205475
FILING DATE: 11-APR-1990
ATTONINGY AGENTALION:
AMPRICATION NUMBER: US 2-205475
FILING DATE: US 2-AUG-1990
ATTONINGY AGENTALION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Wegner, Cantor, Mueller & Player, P.C. STREET: 1233 20th Street, N.W. CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Player, William E.
REGISTRATION NUMBER: 31,409
REFERENCE/DOCKET NUMBER: P-450-22830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application US/08070301
Patent No. 5871995
GENERAL INFORMATION:
APPLICANT: KAMINUMA, TOSHINO
APPLICANT: FUSE, YUKA
APPLICANT: TAJIMA, Masahiro
APPLICANT: TAJIMA, Masahiro
APPLICANT: TAJIMA, Matsuo
APPLICANT: KISHIMOTO, Jiro
APPLICANT: KATO, Ichiro
NUMBER OF SEQ ID NOS: 4'
SOFWARE: Patentin version 3.0
SEQ ID NO 2
LENGTH: 3
                                                                                                                                                                                        NAME/KEY: MOD_RES
LOCATION: (3)...(3)
CTHER INFORMATION: AMIDATION
US-10-230-133-2
                                                                                                                                                                                                                                                                                                                             Query Match 71.4
Best Local Similarity 100.
Matches 3; Conservative
                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
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US-08-070-301-8
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                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                              Length 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Fh lenhag, Karin I.
APPLICANT: Fryklund, Linda
APPLICANT: Pryklund, Linda
APPLICANT: Nyberg, Fred J.
APPLICANT: Nyberg, Fred J.
APPLICANT: Ludin, Romny
TITLE OF INVENTION: New Oligopeptides with Affinity to
TITLE OF INVENTION: Opioid Receptors
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/433,401

FILING DATE: 18-MAY-1995

CLASSIFICATION 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT\SE93\00986

FILING DATE: 18-NOV-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: SE 9203496-6

FILING DATE: 20-NOV-1992

ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                         71.4%; Score 15; DB 2; Le 100.0%; Pred. No. 4.1e+05; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Pollock, Vande Sande & Priddy STREET: 1990 M Street, N.W., Suite 800 CITY: Washington STATE: D.C. COUNTRY: US COUNTRY: US COUNTRY: WASHINGTON MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4, Application US/08433401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Amernick, Burton A. REGISTRATION NUMBER: 24,852 REFERENCE/DOCKET NUMBER: 15: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (202) 331-7111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (202) 223-2596
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
TELEFAX: (202) 835-0605
TELEX: 440706
INFORMATION FOR EGG ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLGGY: linear
MOLECULE TYPE: peptide
US-08-070-301-8
                                                                                                                                                                                                                                                         Query Match 71.4
Best Local Similarity 100.
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
MOLECULE TYPE: peptide
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                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                         APPLICANT: GICQUEL, Brigitte
APPLICANT: GICQUEL, Brigitte
APPLICANT: GICQUEL, Brigitte
APPLICANT: DAY, ENG Mong
APPLICANT: PORTWOI, Denis
APPLICANT: TIMM, Juliano
TITLE OF INVENTION: MYCOBACTERIA FUNCTIONAL SCREENING AND/OR
TITLE OF INVENTION: EXPRESSION VECTORS
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: C/O FINNEGAN, HENDERSON, FARRABOW, GARRETT &
ADDRESSEE: Liso I Street, N.W.
CITY: Washington
STATE: D.C.
STATE: D.C.
STATE: D.C.
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        71.4%; Score 15; DB 2; Length 4; 50.0%; Pred. No. 4.1e+05; tive 2; Mismatches 0; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 66.7%; Score 14; DB 3; Length 4; Best Local Similarity 66.7%; Pred. No. 4.1e+05; Matches 2; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: ELDOPY disk
COMPUTER: READABLE FORM:
MEDIUM TYPE: FlOPPY disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: Batenin PC-DOS/MS-DOS
SOFTWARE: Patenin Release #1.0, Version #1.30
SOFTWARE: Patenin Names: US/08/793,701
FILING DATE: 09-JUN-1997
CLASSIFICATION NUMBER: US/08/793,701
FILING DATE: 09-JUN-1997
RILING DATE: 30-AUG-1995
PRIOR APPLICATION NUMBER: PR 94/10585
FILING DATE: 02-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: MCDONGII, Lessie A.
REGISTRATION NUMBER: 34,872
REFERENCE/DOCKET NUMBER: 02356.0075
TELECOMMUNICATION IN PRORMATION:
                                                                                                                                                                                                                                                                                          Sequence 25, Application US/08793701
Patent No. 6248581
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (202) 408-4132
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO. 25:
SEQUENCE CHARACTERISTICS:
Query Match
Best Local Similarity 50.0
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; MOLECULE TYPE: protein US-08-793-701-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
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1 YGLL 4
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US-08-793-701-25
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RESULT 14 US-09-579-264-25 . Sequence 25, Application US/09579264

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APPLICANT: GICQUEL, Brigitte
APPLICANT: LIM, Bog Mong
APPLICANT: LIM, Bog Mong
APPLICANT: LIM, Bog Mong
APPLICANT: TIMM, Juliano
TITLE OF INVENTION: EXPRESSION VECTORS
NUMBER OF SEQUENCES: 63
ADDRESSEE: C/O FINNEGAN, HENDERSON, FARRABOW, GARRETT &
STREET: 1300 I Lreet, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 37, Application US/08429964
Fatent No. 5962243
GENERAL INFORMATION:
APPLICANT: BROWN, MICHAEL S.
APPLICANT: GOLDSTEIN, JOSEPH L.
APPLICANT: GOLDSTEIN, JOSEPH L.
TITLE OF INVENTION: WETHODS FOR THE IDENTIFICATION OF FARNESYL
TITLE OF INVENTION: TRANSFERASE INHIBITORS
INVERSPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14; DB 4; Length 4;
Pred. No. 4.1e+05;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOGTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/579,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/793,701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: McDonell, Lealie A.
REGISTRATION NUMBER: 34,872
REFERENCE/DOCKET NUMBER: 02356.0075
TELECOMMUNICATION:
TELEPHONE: (202) 408-4132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
PRIOR APPLICATION DATA:
PPLICATION NUMBER: FR 94/10585
FILING DATE: 02-SEP-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    66.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 66.7
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                             ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 4 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-579-264-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 15
US-08-429-964-37
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Query Match
Best Local Similarity 66.7%; Pred. No. 4.1e+05;
Matches 2; Conservative 1; Mismatches 0; Indels
STATE: TEXAS

COUNTRY: UNITED STATES OF AMERICA

ZIP: 77720

COMPUTER: READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
SOFTWARE: PATENTION PLANE
FILING DATE: 27-APR-1995
CLASSIFICATION NUMBER: US/08/429,964
FILING DATE: 10-FEB-1993
CLASSIFICATION NUMBER: US 08/021,625
FILING DATE: 16-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 07/822,011
FILING DATE: 18-APR-1991
CLASSIFICATION NUMBER: US 07/822,011
FILING DATE: 18-APR-1991
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/510,706
FILING DATE: 18-APR-1990
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/510,706
FILING DATE: 10-NOV-1990
CLASSIFICATION: 435
APPLICATION NUMBER: 32,165
APPLICATION NUMBER: 32,165
APPLICATION NUMBER: US 07/510,706
FILING DATE: 10-NOV-1990
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/510,706
FILING DATE: 10-NOV-1990
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/510,706
FILING DATE: 10-NOV-1990
CLASSIFICATION NUMBER: UTSD:432/PAR
TELECOMMUNICATION INFORMATION:
TELEFAX: (713) 789-2679
FILING DATE: MAINO acid
FILENCY: A maino acid
FIRETAL ON SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 maino acid
FIRETAL TOPOLOGY: linear
US-08-429-964-37
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Search completed: March 23, 2005, 15:14:28 Job time : 42 secs

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Gaps

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